

# SECTION **INL**

## INTERIOR LIGHTING SYSTEM

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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

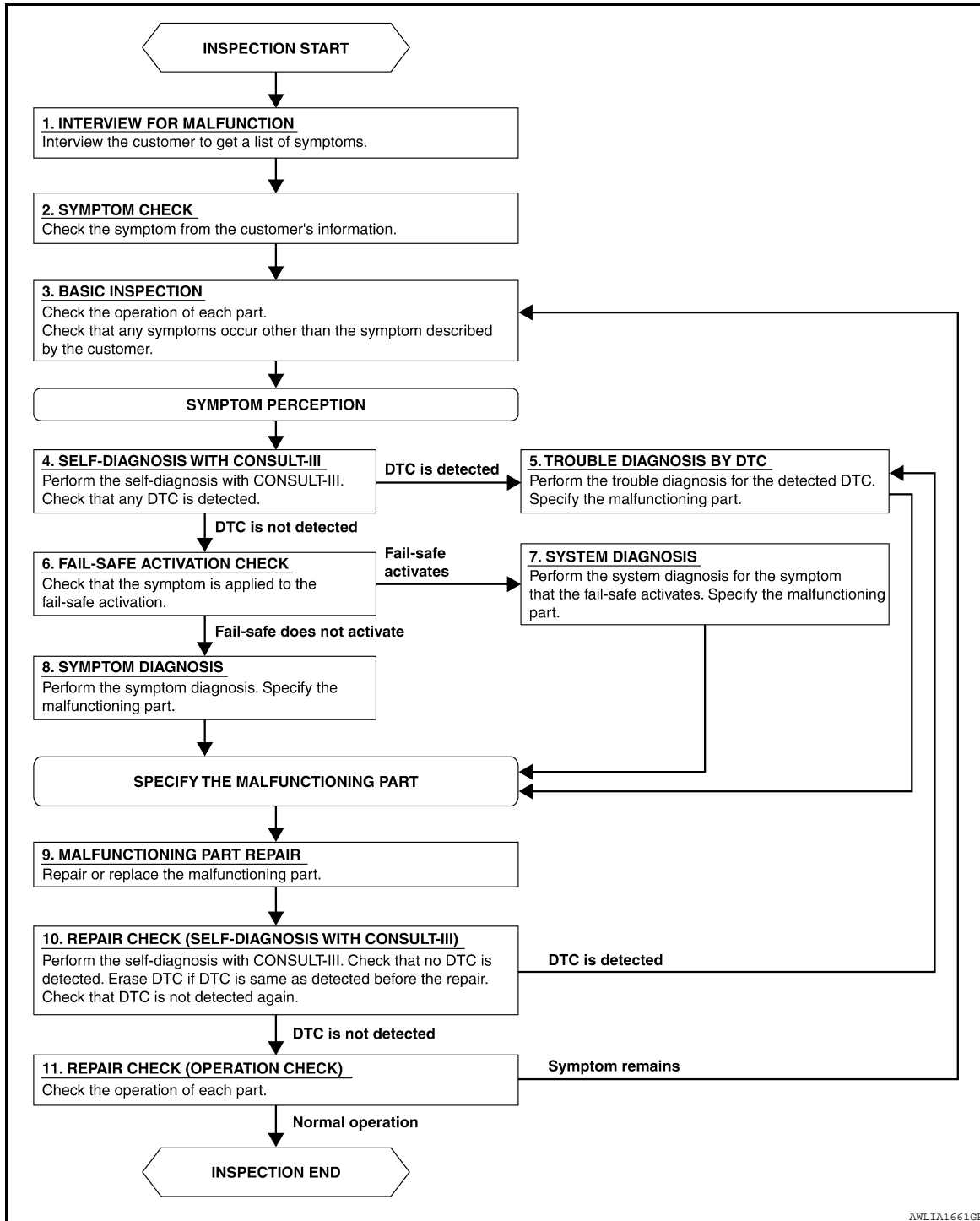
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000005439335

#### 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-III

---

Perform the self-diagnosis with CONSULT-III. 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. 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-III)

---

Perform the self-diagnosis with CONSULT-III. 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

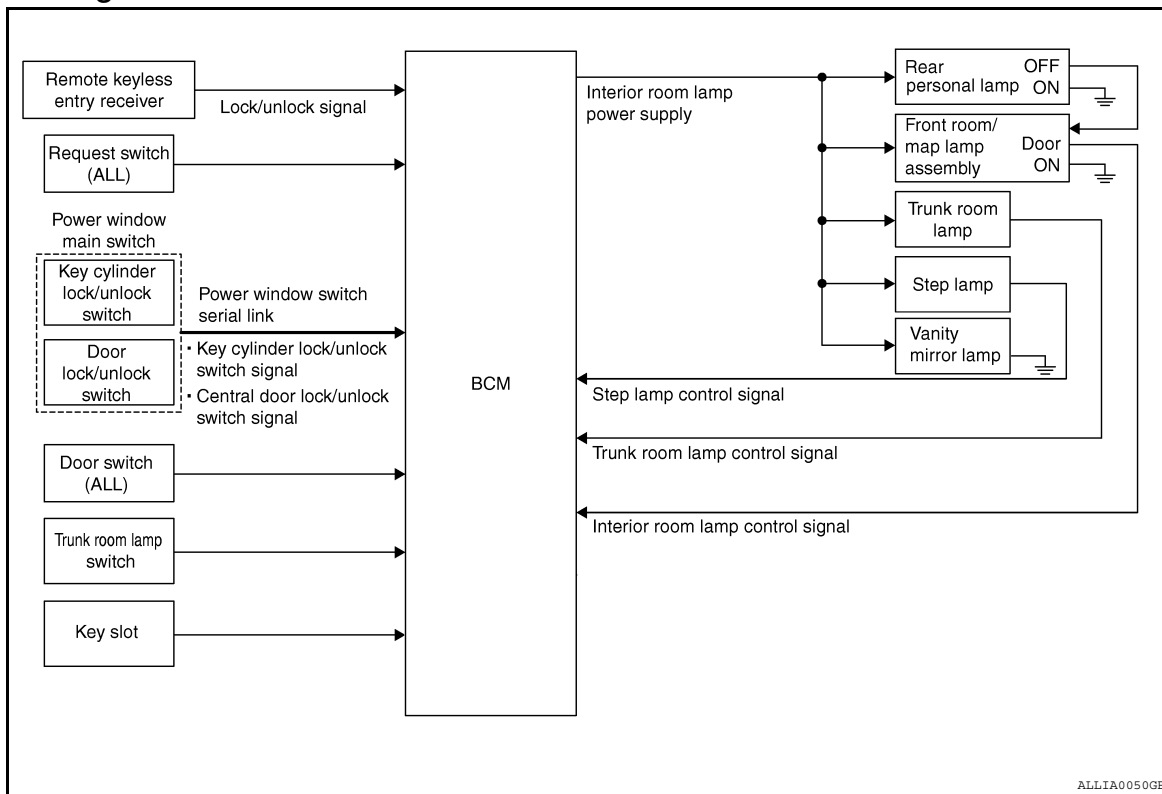
< FUNCTION DIAGNOSIS >

## FUNCTION DIAGNOSIS

### INTERIOR ROOM LAMP CONTROL SYSTEM

#### System Diagram

INFOID:000000005439336



#### System Description

INFOID:000000005439337

#### OUTLINE

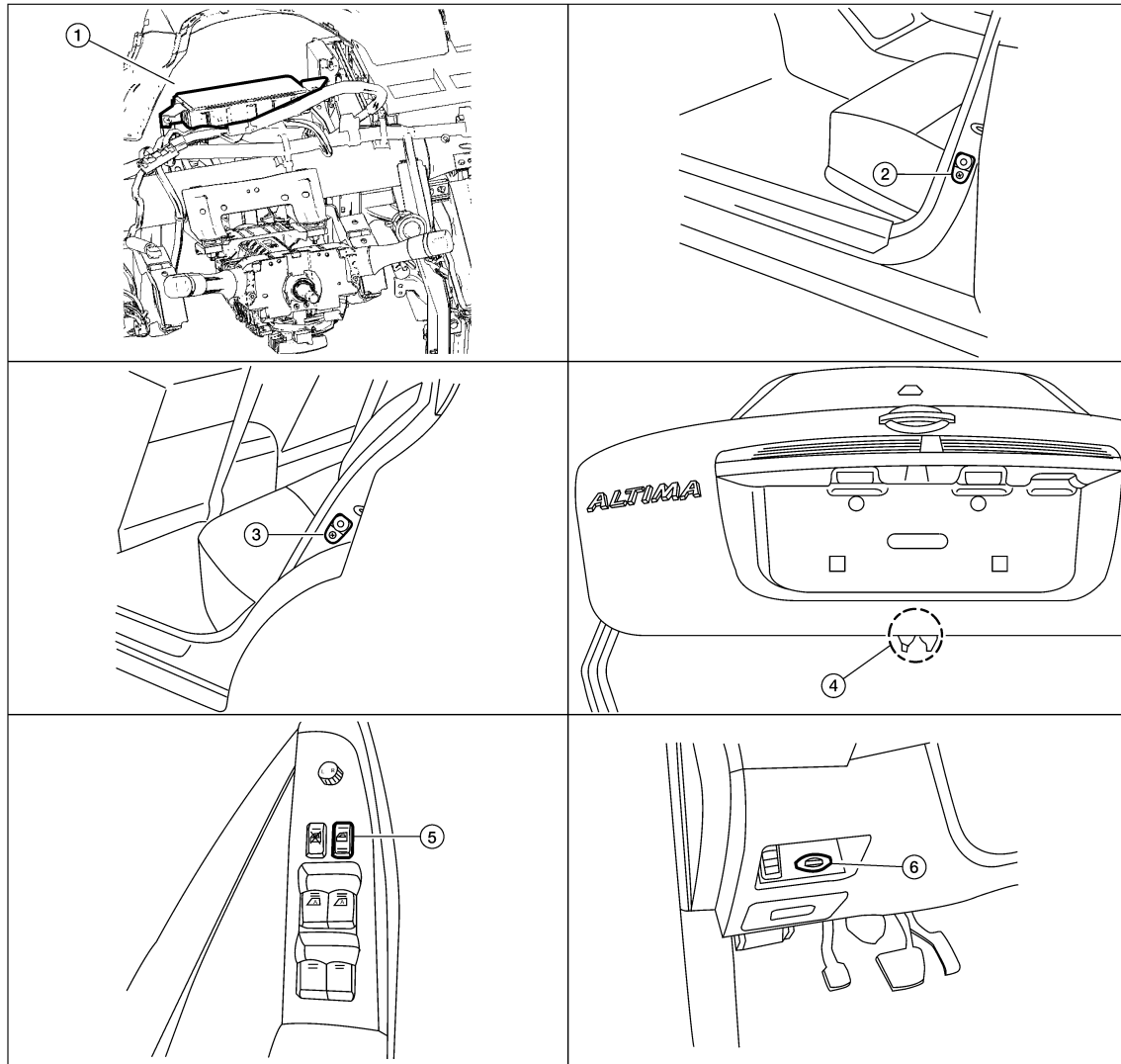
- Interior room lamps\* are controlled by interior room lamp timer control function of BCM.  
\*:Front room/map lamps and personal lamps (when lamp switch is in DOOR position).
- Trunk room lamp is controlled by trunk room lamp control function of BCM.
- Step lamps are controlled by step lamp control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

# INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

## Component Parts Location

INFOID:000000005439338



- |  |   |  |
|--|---|--|
| 1. BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed) | 2. Front door switch LH, B8 and RH, B108  | 3. Rear door switch LH, B18 and RH, B116 |
| 4. Trunk lamp switch and trunk release solenoid B28                      | 5. Main power window and door lock/unlock switch D7 and D8 (with left and right front power window anti-pinch system) | 6. Key slot M40                          |

## Component Description

INFOID:000000005439339

### 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 interior room lamp 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, 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 canceled under the following conditions.

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# INTERIOR ROOM LAMP CONTROL SYSTEM

## < FUNCTION DIAGNOSIS >

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- When the front door LH is locked [with Intelligent Key, main power window and door lock/unlock switch, 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-III.

## 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 30 minutes after the ignition switch is turned OFF.

The BCM controls the interior lamps listed below

- Step lamp LH and RH
- Front room/map 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 or main power window and door lock/unlock switch, 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-III.

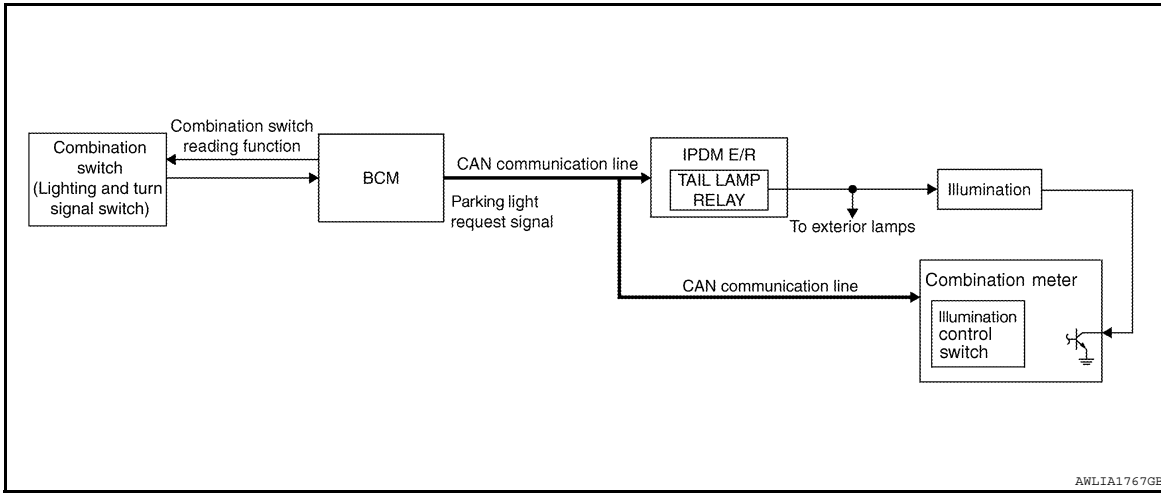


# ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

## ILLUMINATION CONTROL SYSTEM

### System Diagram



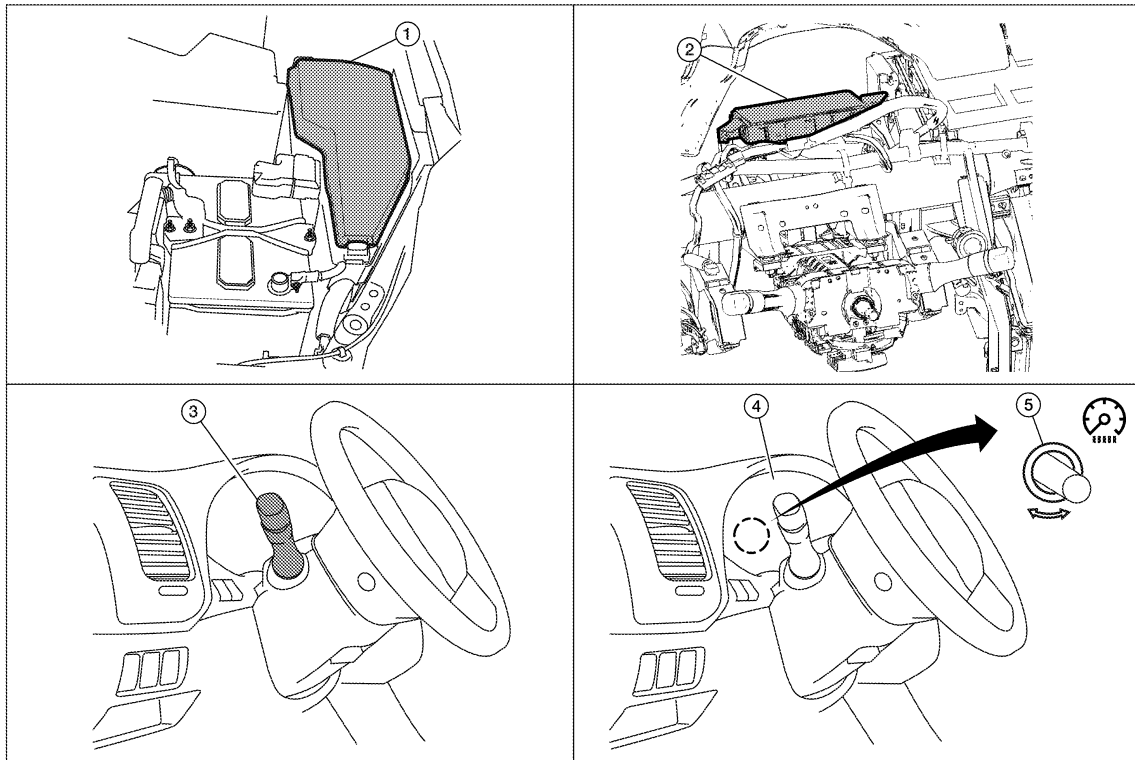
### System Description

INFOID:000000005783623

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

### Component Parts Location

INFOID:000000005439342



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# ILLUMINATION CONTROL SYSTEM

## < FUNCTION DIAGNOSIS >

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1. IPDM E/R E17, E18
2. BCM M16, M17, M18, M19 (view with instrument panel removed)
3. Combination switch (lighting and turn signal switch) M28
4. Combination meter M24
5. Illumination control switch (built into combination meter)

## Component Description

INFOID:000000005783624

### ILLUMINATION OPERATION BY COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH)

With the combination switch (lighting and turn signal 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 combination switch (lighting and turn signal switch) is in the 1ST or 2ND position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 30 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the illumination lamps are turned off after a 30 second delay. When the combination switch (lighting and turn signal switch) is turned from OFF to 1ST or 2ND position after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

# DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

#### COMMON ITEM : Diagnosis Description

INFOID:000000005783631

#### BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAGNOSTIC RESULT	Displays the diagnosis results judged by BCM.
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	<ul style="list-style-type: none"> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>

#### SYSTEM APPLICATION

BCM can perform the following functions for each system.

#### NOTE:

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

System	Sub system selection item	Diagnosis mode		
		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
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	×	×	×

#### COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)

INFOID:000000005783632

#### ECU IDENTIFICATION

Displays the BCM part No.

#### SELF-DIAG RESULT

Refer to [BCS-68, "DTC Index"](#).

# DIAGNOSIS SYSTEM (BCM)

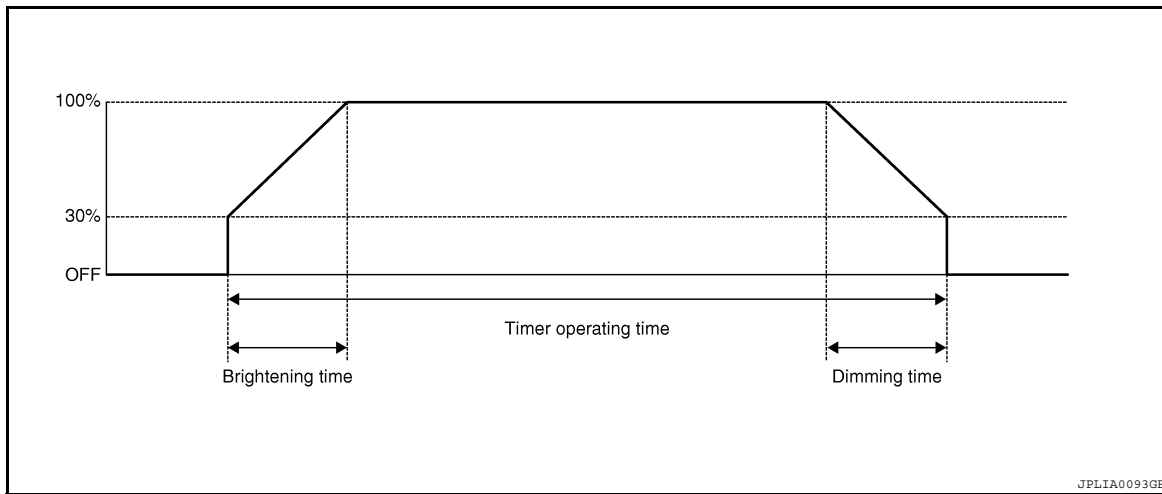
< FUNCTION DIAGNOSIS >

## INT LAMP

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

INFOID:000000005783633

#### WORK SUPPORT



Work Item	Setting item	Setting
SET I/L D-UNLCK INTCON	ON*	With the interior room lamp timer function
	OFF	Without the interior room lamp timer function
ROOM LAMP TIMER SET	MODE2	7.5 sec.
	MODE3*	15 sec.
	MODE4	30 sec.
ROOM LAMP ON TIME SET	MODE1	0.5 sec.
	MODE2*	1 sec.
	MODE3	2 sec.
	MODE4	3 sec.
	MODE5	0 sec.
ROOM LAMP OFF TIME SET	MODE1	0.5 sec.
	MODE2	1 sec.
	MODE3	2 sec.
	MODE4*	3 sec.
	MODE5	0 sec.
R LAMP TIMER LOGIC SET	MODE1*	Interior room lamp timer activates with synchronizing all doors.
	MODE2	Interior room lamp timer activates with synchronizing the front door LH only.

\* : Initial setting

#### DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [ON/OFF]	The switch status input from request switch (front LH)
REQ SW-AS [ON/OFF]	The switch status input from front request switch (front RH)
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch

# DIAGNOSIS SYSTEM (BCM)

## < FUNCTION DIAGNOSIS >

Monitor item [Unit]	Description
ACC RLY-F/B [ON/OFF]	Indicates [ON/OFF] condition of accessory relay.
UNLK SEN-DR [ON/OFF]	Indicates [ON/OFF] condition of driver door UNLOCK status.
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot
DOOR SW-DR [ON/OFF]	The switch status input from front door switch LH
DOOR SW-AS [ON/OFF]	The switch status input from front door switch RH
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH
DOOR SW- RL [ON/OFF]	The switch status input from rear door switch LH
CDL LOCK SW [ON/OFF]	Lock switch status received from door lock/unlock switch by power window serial link
CDL UNLOCK SW [ON/OFF]	Unlock switch status received from door lock/unlock switch by power window serial link
KEY CYL LK-SW [ON/OFF]	Lock switch status received from key cylinder switch by power window serial link
KEY CYL UN-SW [ON/OFF]	Unlock switch status received from key cylinder switch by power window serial link
TRNK/HAT MNTR [ON/OFF]	The switch status input from trunk room lamp switch
RKE-LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver

## ACTIVE TEST

Test item	Operation	Description
INT LAMP	ON	Outputs the interior room lamp control signal to turn map lamp and personal lamp ON (Map lamp switch is in DOOR position).
	OFF	Stops the interior room lamp control signal to turn map lamp and personal lamp OFF.
STEP LAMP TEST	ON	Outputs the step lamp control signal to turn step lamp ON.
	OFF	Stops the step lamp control signal to turn step lamp OFF.
LUGGAGE LAMP TEST	ON	Outputs the luggage room lamp control signal to turn step lamp ON.
	OFF	Stops the luggage room lamp control signal to turn step lamp ON.

## BATTERY SAVER

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

INFOID:000000005783634

## WORK SUPPORT

Work item	Setting item	Setting
ROOM LAMP BAT SAV SET	ON*	With the interior room lamp battery saver function
	OFF	Without the interior room lamp battery saver function
ROOM LAMP TIMER SET	MODE1*	Sets the interior room lamp battery saver timer operating time.
	MODE2	
		60 min.

# DIAGNOSIS SYSTEM (BCM)

## < FUNCTION DIAGNOSIS >

Work item	Setting item	Setting
BATTERY SAVER SET	ON*	With the exterior lamp battery saver function
	OFF	Without the exterior lamp battery saver function

\* : Initial setting

## DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [ON/OFF]	The switch status input from request switch (front LH)
REQ SW-AS [ON/OFF]	The switch status input from front request switch (front RH)
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch
ACC RLY-F/B [ON/OFF]	Indicates [ON/OFF] condition of accessory relay.
UNLK SEN-DR [ON/OFF]	Status of front door lock assembly LH (door unlock sensor)
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot
DOOR SW-DR [ON/OFF]	The switch status input from front door switch LH
DOOR SW-AS [ON/OFF]	The switch status input from front door switch RH
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH
DOOR SW-RL [ON/OFF]	The switch status input from rear door switch LH
CDL LOCK SW [ON/OFF]	Lock switch status received from door lock/unlock switch by power window serial link
CDL UNLOCK SW [ON/OFF]	Unlock switch status received from door lock/unlock switch by power window serial link
KEY CYL LK-SW [ON/OFF]	Lock switch status received from key cylinder switch by power window serial link
KEY CYL UN-SW [ON/OFF]	Unlock switch status received from key cylinder switch by power window serial link
TRNK/HAT MNTR [ON/OFF]	The switch status input from trunk room lamp switch
RKE-LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver

## ACTIVE TEST

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

\* : Each lamp switch is in ON position.

# POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

## COMPONENT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT

#### BCM

#### BCM : Diagnosis Procedure

INFOID:000000005783639

Regarding Wiring Diagram information, refer to [BCS-71, "Wiring Diagram"](#).

### 1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	J
11		10

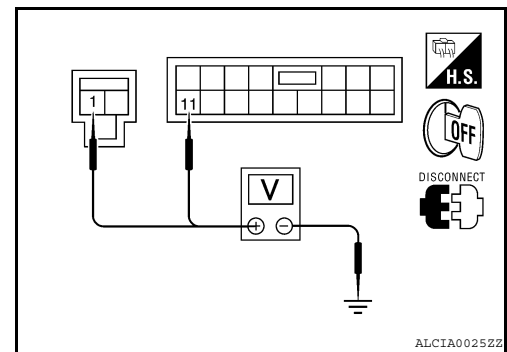
Is the fuse or fusible link blown?

- 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
Connector	Terminal	
M16	1	
M17	11	
		Battery voltage



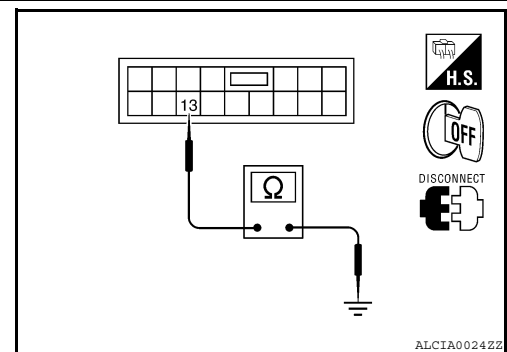
Is the measurement normal?

- 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:000000005783640

### 1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to CONSULT-III operation manual.

## POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

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>> Work End.



# BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

## BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

### Description

INFOID:000000005439350

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

### Component Function Check

INFOID:000000005439351

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

##### CONSULT-III

1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
  - Front room/map lamps
  - Personal lamps rear
  - Step lamps
  - Vanity mirror lamps
  - Trunk room lamp
3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
4. While operating the test item, check that each interior room lamp turns ON/OFF.

**OFF** : Interior room lamp OFF

**ON** : Interior room lamp ON

Is the inspection result normal?

- YES >> Interior room lamp power supply circuit is normal.  
 NO >> Refer to [INL-17, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000005439352

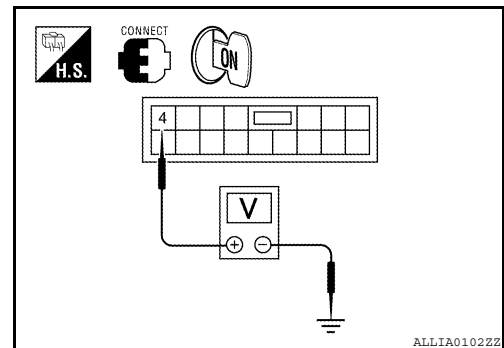
Regarding Wiring Diagram information, refer to [INL-61, "Wiring Diagram"](#).

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

##### CONSULT-III

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

Terminals		Test item	Voltage
(+)	(-)		
BCM		BATTERY SAVER	Voltage
Connector	Terminal		
M17	4		
		OFF	0 V
		ON	Battery voltage



Is the inspection result normal?

- YES >> GO TO 2  
 NO >> Replace BCM. Refer to [BCS-83, "Removal and Installation"](#).

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

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
  - BCM M17
  - Front room/map lamp assembly

# BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

## < COMPONENT DIAGNOSIS >

- Vanity mirror lamp LH
  - Vanity mirror lamp RH
  - Trunk room lamp
  - Step lamp LH
  - Step lamp RH
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	R50	1	Yes
		Vanity mirror lamp LH	R3	2	
		Vanity mirror lamp RH	R9	2	
		Trunk room lamp	B36	1	
		Step lamp LH	D11	1	
		Step lamp RH	D109	1	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

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

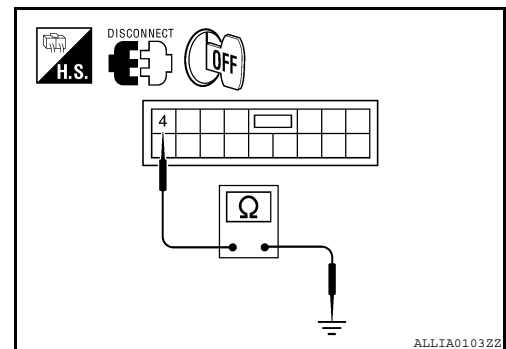
Check continuity between BCM connector M17 terminal 4 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	4		No

Is the inspection result normal?

YES >> Replace the interior room lamp. Refer to [INL-87](#), "[Removal and Installation](#)".

NO >> Repair the harness or connectors.



# INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

## INTERIOR ROOM LAMP CONTROL CIRCUIT

### Description

INFOID:000000005439353

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:000000005439354

#### 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

### 1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

#### CONSULT-III

1. Switch the front room/map lamp assembly switch 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-19. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000005439355

Regarding Wiring Diagram information, refer to [INL-61. "Wiring Diagram"](#).

### 1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### CONSULT-III

1. Turn ignition switch OFF.
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

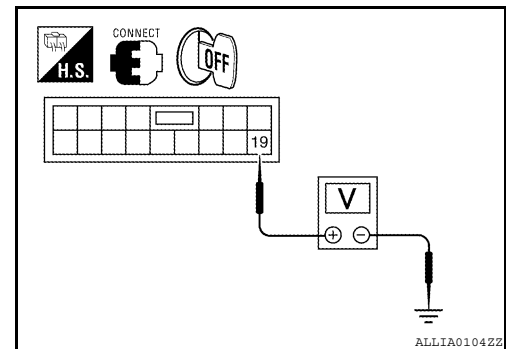
Is the inspection result normal?

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



# INTERIOR ROOM LAMP CONTROL CIRCUIT

## < COMPONENT DIAGNOSIS >

1. Disconnect BCM connector M17 and front room/map lamp assembly connector.
2. Check continuity between BCM connector M17 (A) terminal 19 and front room/map lamp assembly connector R50 (B) terminal 2.

BCM		Front room/map lamp assembly		Continuity
Connector	Terminal	Connector	Terminal	
M17 (A)	19	R50 (B)	2	Yes

**Is the inspection result normal?**

- YES >> Check interior room lamps for an open. If OK, replace BCM. Refer to [BCS-83, "Removal and Installation"](#). If NG, replace interior room lamp. Refer to [INL-87, "Removal and Installation"](#).
- NO >> Repair the harness or connectors.

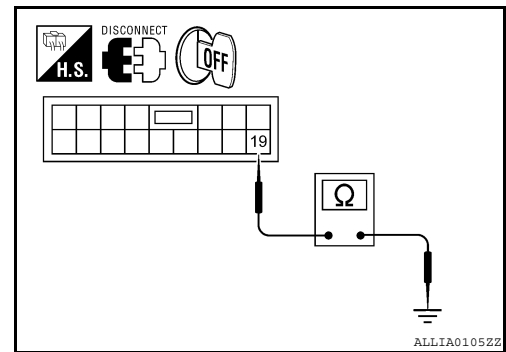
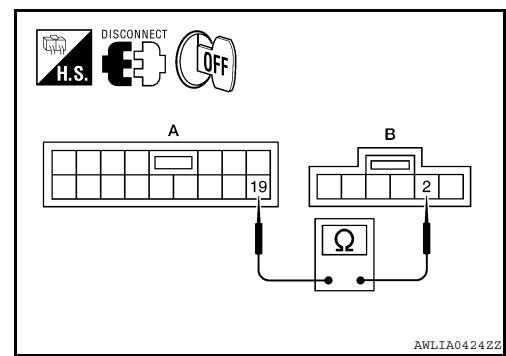
### 3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M17 and front room/map lamp assembly connector.
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-83, "Removal and Installation"](#). If NG, replace interior room lamp. Refer to [INL-87, "Removal and Installation"](#).
- NO >> Repair the harness or connectors.



# STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

## STEP LAMP CIRCUIT

### Description

INFOID:000000005439356

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

### Component Function Check

INFOID:000000005439357

#### 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-III

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

### Diagnosis Procedure

INFOID:000000005439358

Regarding Wiring Diagram information, refer to [INL-61, "Wiring Diagram"](#).

### 1.CHECK STEP LAMP OUTPUT

#### CONSULT-III

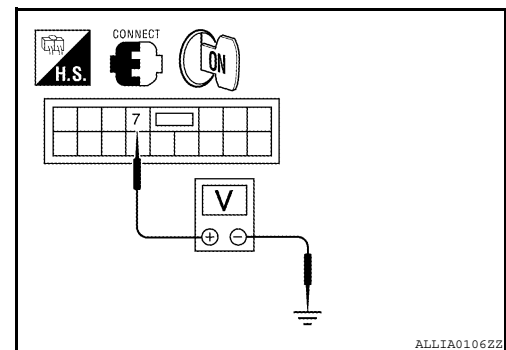
1. Turn ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M17 terminal 7 and ground.

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 circuit is operating normally.  
Fixed ON>>GO TO 3  
Fixed OFF>>GO TO 2

### 2.CHECK STEP LAMP OPEN CIRCUIT

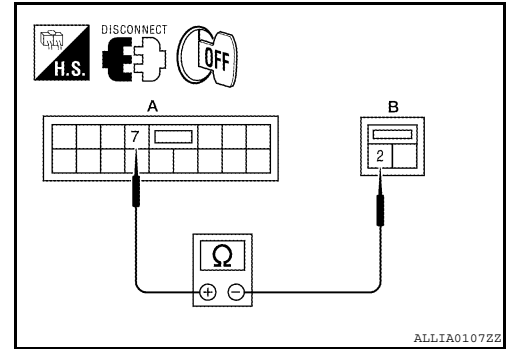


# STEP LAMP CIRCUIT

## < COMPONENT DIAGNOSIS >

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

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



### Is the inspection result normal?

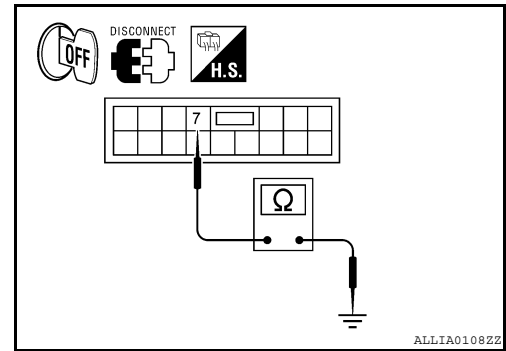
YES >> Check step lamps for an open. If OK, replace BCM. Refer to [BCS-83. "Removal and Installation"](#).  
If NG, replace step lamp. Refer to [INL-87. "Removal and Installation"](#).

NO >> Repair harness or connectors.

## 3. CHECK STEP LAMP SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and step lamp LH and RH 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 lamps for a short circuit. If OK, replace BCM. Refer to [BCS-83. "Removal and Installation"](#). If NG, replace step lamp. Refer to [INL-87. "Removal and Installation"](#).

NO >> Repair the harness or connectors.

# TRUNK ROOM LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

## TRUNK ROOM LAMP CIRCUIT

### Description

INFOID:000000005439359

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

### Component Function Check

INFOID:000000005439360

#### 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-III

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

### Diagnosis Procedure

INFOID:000000005439361

Regarding Wiring Diagram information, refer to [INL-61, "Wiring Diagram"](#).

### 1.CHECK TRUNK ROOM LAMP OUTPUT

#### CONSULT-III

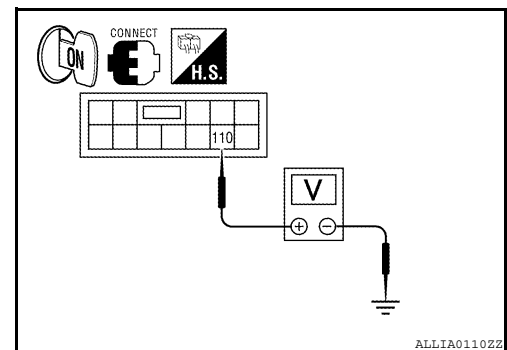
1. Turn ignition switch ON.
2. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M20 terminal 110 and ground.

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 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

## < COMPONENT 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 (A)	110	B36 (B)	2	Yes

Is the inspection result normal?

YES >> Check trunk room lamp for an open. If OK, replace BCM. Refer to [BCS-83, "Removal and Installation"](#). If NG, replace trunk room lamp. Refer to [INL-87, "Removal and Installation"](#).

NO >> Repair harness or connectors.

### 3. CHECK TRUNK ROOM LAMP SHORT CIRCUIT

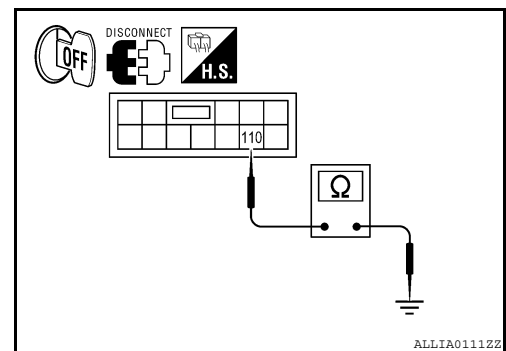
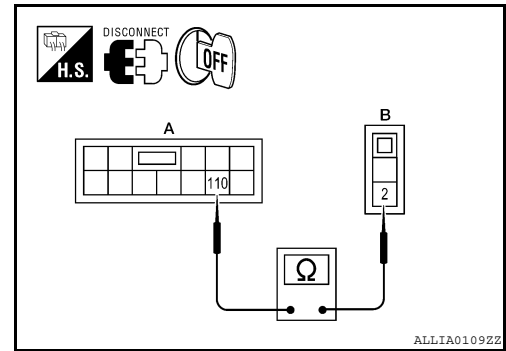
1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and trunk room lamp connector.
3. Check continuity between BCM harness connector M20 terminal 110 and ground.

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-83, "Removal and Installation"](#). If NG, replace trunk room lamp. Refer to [INL-87, "Removal and Installation"](#).

NO >> Repair harness or connectors.





# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< COMPONENT DIAGNOSIS >

## PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

### Description

INFOID:000000005439362

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

### Component Function Check

INFOID:000000005439363

#### 1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

##### CONSULT-III

1. Turn the ignition switch ON.
2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
3. While operating the test item, check 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-25, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000005439364

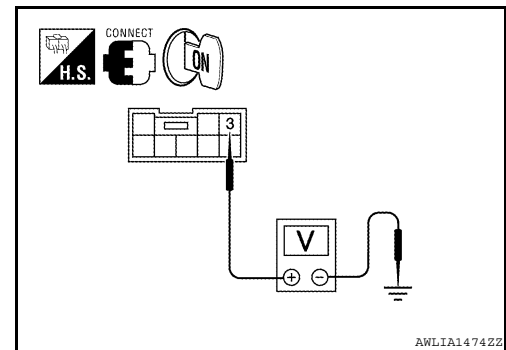
Regarding Wiring Diagram information, refer to [INL-71, "Wiring Diagram"](#).

#### 1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

##### CONSULT-III

1. Turn the ignition switch ON.
2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
3. While operating the test item, check voltage between push-button ignition switch connector M38 terminal 3 and ground.

Terminals		Test item	Voltage
(+)	(-)		
Push-button ignition switch		ENGINE SW ILLUMI	
Connector	Terminal		
M38	3		
		ON	5 V
		OFF	0 V



##### Is the inspection result normal?

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

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

# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

## < COMPONENT 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	41	M38	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-83. "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		Yes

Is the inspection result normal?

- YES >> Replace push-button ignition switch.  
 NO >> GO TO 5

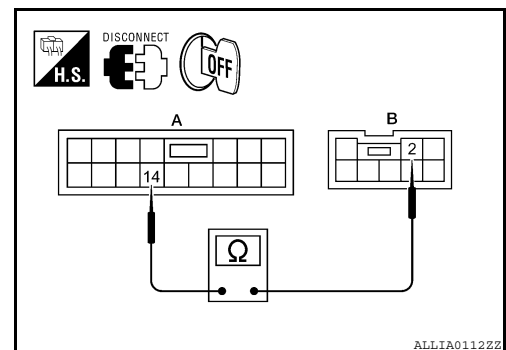
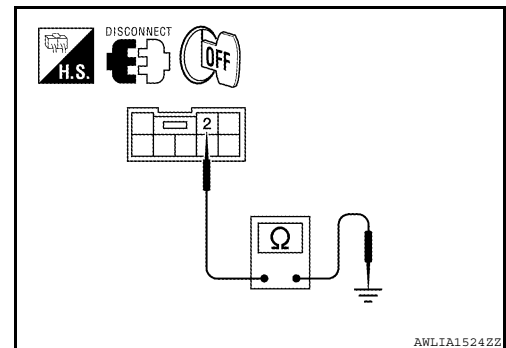
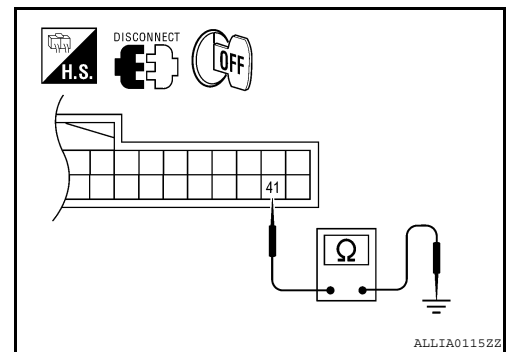
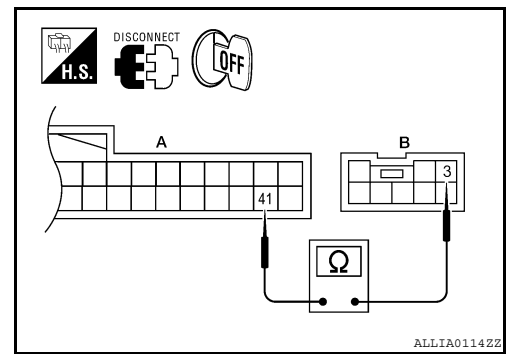
### 5.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND OPEN CIRCUIT

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-83. "Removal and Installation"](#).  
 NO >> Repair the harness or connectors.



# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## ECU DIAGNOSIS

### BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005783641

#### 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
DOOR SW-DR	Front door LH closed	OFF
	Front door LH opened	ON
DOOR SW-AS	Front door RH closed	OFF
	Front door RH 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
CDL LOCK SW	Other than power door lock switch LOCK	OFF
	Door lock/unlock switch LOCK	ON

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
CDL UNLOCK SW	Other than door lock/unlock switch UNLOCK	OFF
	Door lock/unlock switch UNLOCK	ON
KEY CYL LK-SW	Other than front door LH key cylinder LOCK position	OFF
	Front door LH key cylinder LOCK position	ON
KEY CYL UN-SW	Other than front door LH key cylinder UNLOCK position	OFF
	Front door LH 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
FAN ON SIG	When AUTO switch or fan switch is pressed	ON
AIR COND SW	When A/C 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 LH request switch is not pressed	OFF
	When front door LH request switch is pressed	ON
REQ SW-AS	When front door RH request switch is not pressed	OFF
	When front door RH request switch is pressed	ON
REQ SW-BD/TR	When trunk request switch is not pressed	OFF
	When trunk request switch is pressed	ON
PUSH SW	When push-button ignition switch is not pressed	OFF
	When push-button ignition switch is pressed	ON
IGN RLY -F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
ACC RLY -F/B	Ignition switch OFF	OFF
	Ignition switch ACC or ON	ON

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
BRAKE SW 1	When the brake pedal is not depressed	ON	A
	When the brake pedal is depressed	OFF	
DETE/CANCL SW	When selector lever is in P position	OFF	B
	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	C
	When selector lever is in P or N position	ON	
UNLK SEN-DR	Front door LH UNLOCK status	OFF	D
	Front door LH LOCK status	ON	
PUSH SW -IPDM	When push-button ignition switch is not pressed (IPDM E/R sends via CAN)	OFF	E
	When push-button ignition switch is pressed (IPDM E/R sends via CAN)	ON	
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF	F
	Ignition switch ON	ON	
DETE SW -IPDM	When selector lever is in P position (IPDM E/R sends via CAN)	OFF	G
	When selector lever is in any position other than P (IPDM E/R sends via CAN)	ON	
SFT PN -IPDM	When selector lever is in any position other than P or N (IPDM E/R sends via CAN)	OFF	H
	When selector lever is in P or N position (IPDM E/R sends via CAN)	ON	
SFT P -MET	When selector lever is in any position other than P (combination meter sends via CAN)	OFF	I
	When selector lever is in P position (combination meter sends via CAN)	ON	
SFT N -MET	When selector lever is in any position other than N (combination meter sends via CAN)	OFF	J
	When selector lever is in N position (combination meter sends via CAN)	ON	
ENGINE STATE	Engine stopped	STOP	K
	While the engine stalls	STALL	
	At engine cranking	CRANK	INL
	Engine running	RUN	
VEH SPEED 1	While driving	Equivalent to speedometer reading	
VEH SPEED 2	While driving	Equivalent to speedometer reading	M
DR DOOR STATE	Front door LH LOCK status	LOCK	
	Wait with selective UNLOCK operation (5 seconds)	READY	N
	Front door LH UNLOCK status	UNLK	
AS DOOR STATE	Front door RH LOCK status	LOCK	
	Wait with selective UNLOCK operation (5 seconds)	READY	O
	Front door RH UNLOCK status	UNLK	
ID OK FLAG	Ignition switch ACC or ON	RESET	
	Ignition switch OFF	SET	P
PRMT ENG STAT	When the hybrid system start is prohibited	RESET	
	When the hybrid system 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	

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

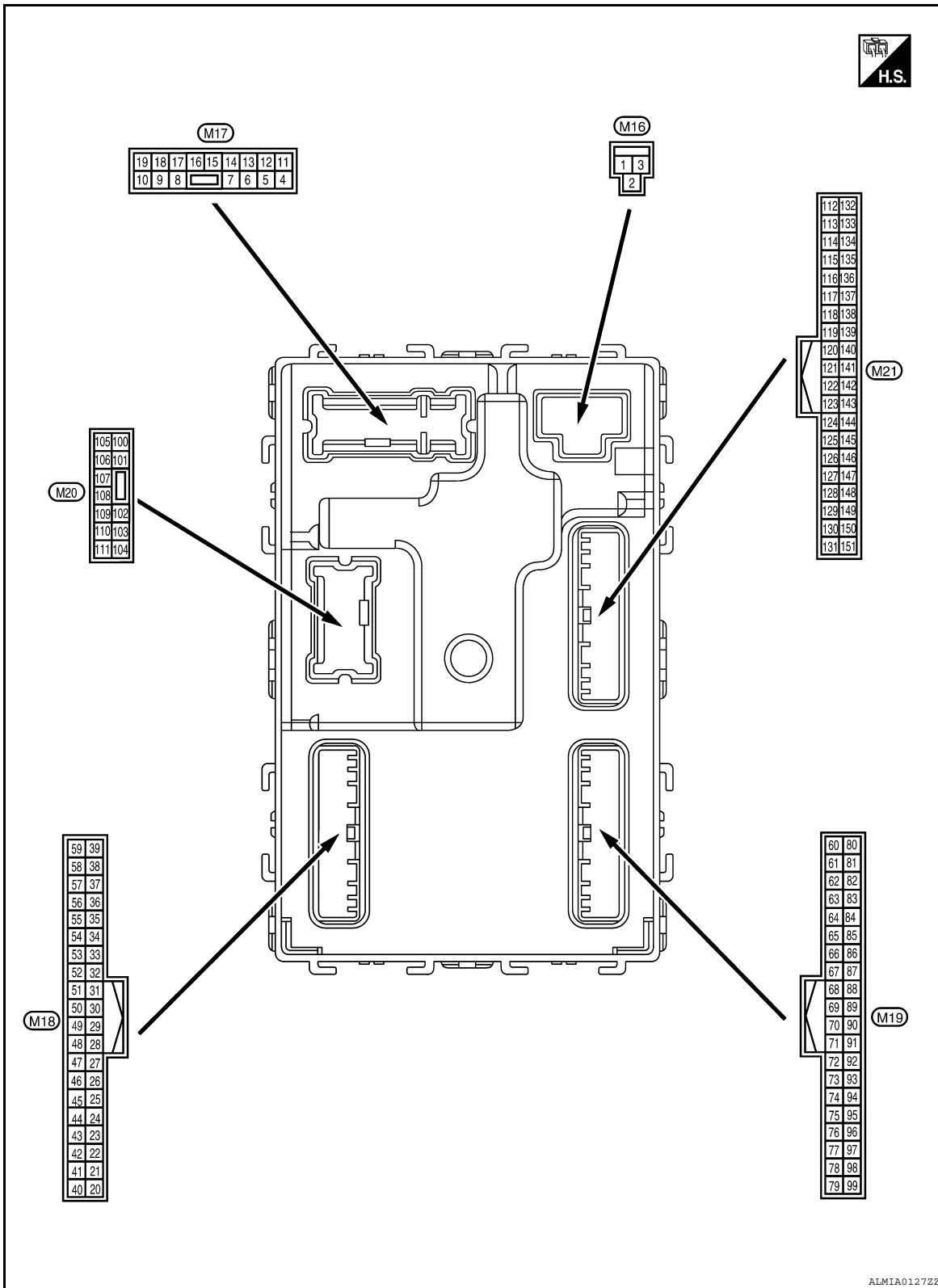
Monitor Item	Condition	Value/Status
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch 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 (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	DONE
	When ID of front LH tire transmitter is not registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	YET
ID REGST FR1	When ID of front RH tire transmitter is registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	DONE
	When ID of front RH tire transmitter is not registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	DONE
	When ID of rear RH tire transmitter is not registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	DONE
	When ID of rear LH tire transmitter is not registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	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

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## Terminal Layout

INFOID:000000005783642



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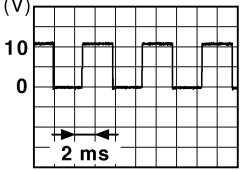
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Physical Values

INFOID:000000005783643

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

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/Y)	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	Room lamp timer	ON	Battery voltage
					OFF	0V
8 (V)	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
					Other than LOCK (actuator is not activated)	0V
9 (G)	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/Y)	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 (R/Y)	Ground	Push-button ignition 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;"><small>JSNIA0010GB</small></p>
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
					ACC	0V



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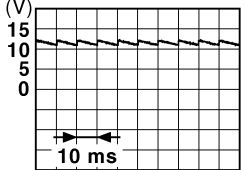
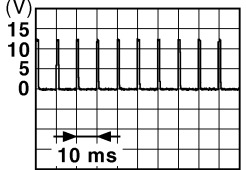
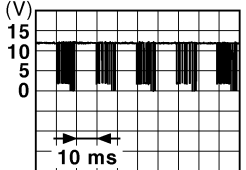
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch RH	0V
					6.5V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch LH	0V
					6.5V
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	Lamps fully OFF
				Lamps fully ON	Battery voltage
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehicle is bright
				When outside of the vehicle 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 not depressed)
				ON (brake pedal is depressed)	0V
					Battery voltage
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status
				UNLOCK status	0V
					11.8V
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
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF
				ACC or ON	0
					Battery voltage
31 (G)	Ground	Ignition relay-2 feedback signal	Input	Ignition switch	OFF
				ON	0V
					Battery voltage

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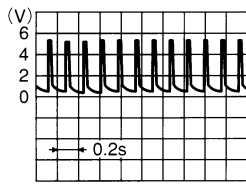
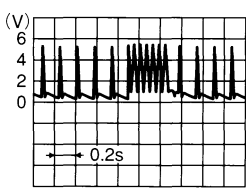
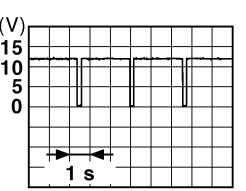
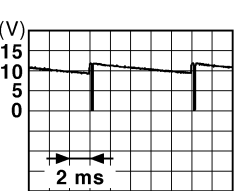
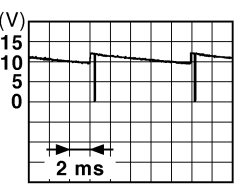
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Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
					ON (when front door RH opens)	0V
33 (SB)	Ground	Compressor ON signal	Input	A/C switch	OFF	Battery voltage
					ON	0V
34* (L/R)	Ground	Front door lock assembly LH (key cylinder switch) (unlock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	Battery voltage
					ON (unlock)	0V
36* (GR)	Ground	Lock switch signal	Input	Door lock/unlock switch	Lock	Battery Voltage
					Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p> <p style="text-align: center;">1.1V</p>
					ON	0V
38 (GR/W)	Ground	Rear window defogger ON signal	Input	Rear window defogger switch	OFF	Battery Voltage V
					ON	0V
39* (GR/R)	Ground	Unlock switch signal	Input	Door lock/unlock switch	Unlock	Battery Voltage
					Lock	0V
40* (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0013GB</p> <p style="text-align: center;">10.2V</p>	
				Ignition switch OFF or ACC	0V	
41 (W)	Ground	Push-button ignition switch illumination	Output	Engine switch (push switch) illumination	ON	5.5V
					OFF	0V
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0V
					OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON	0V	

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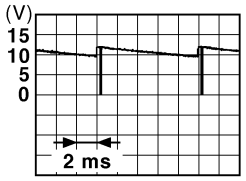
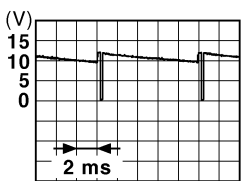
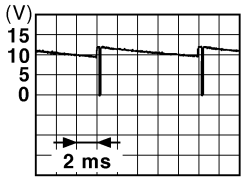
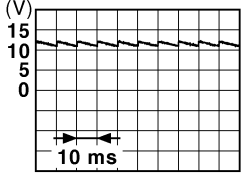
## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF 5.0V
				ACC or ON	5.0V
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state  OCC3881D
				When receiving the signal from the transmitter	 OCC3880D
48 (R/B)	Ground	Selector lever P/N position 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	 JPMIA0014GB 11.3V
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF 0V
				Lighting switch 1ST	 JPMIA0031GB 10.7V
				Lighting switch high-beam	
				Lighting switch 2ND	
Turn signal switch RH					
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) 0V
				Any of the conditions below with all switch OFF	 JPMIA0032GB 10.7V
				<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>	

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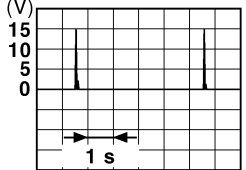
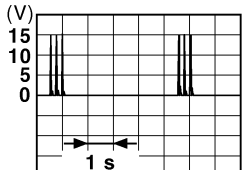
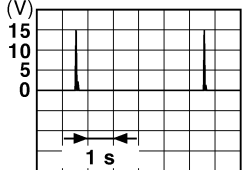
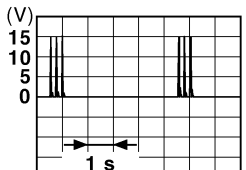
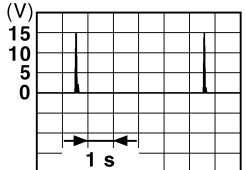
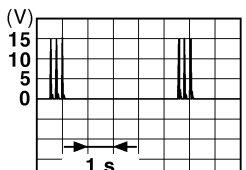
# BCM (BODY CONTROL MODULE)

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	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;">JPMIA0033GB</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>	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
					Front wiper switch INT	 <p style="text-align: right; font-size: small;">JPMIA0034GB</p>
					Front wiper switch LO	
					Lighting switch AUTO	10.7V
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
					Lighting switch flash-to- pass	 <p style="text-align: right; font-size: small;">JPMIA0035GB</p>
					Turn signal switch LH	
55 (BR/ W)	Ground	Front blower monitor	Input	Front blower mo- tor switch	ON	Battery voltage
					OFF	0V
56 (L/B)	Ground	Front door lock as- sembly LH (key cylin- der switch) (lock)	Input	Front door lock assembly LH (key cylinder switch)	OFF (neutral)	Battery voltage
					ON (lock)	0V
57 (W)	Ground	Tire pressure warn- ing check switch	Input	—	—	Battery voltage
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;">JPMIA0011GB</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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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 (B/Y)	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>

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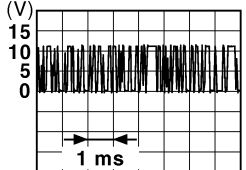
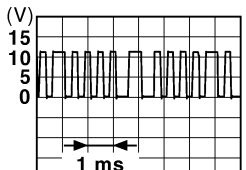
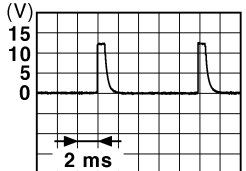

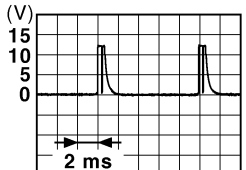
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
63 (LG)	Ground	Front outside handle RH antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the front door RH request switch is operat- ed with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
64 (V)	Ground	Front outside handle LH antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the front door LH request switch is operat- ed with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
65 (P)	Ground	Front outside handle LH antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the front door LH request switch is operat- ed with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

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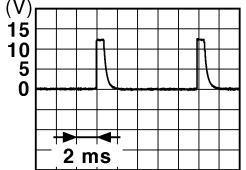
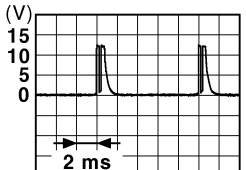

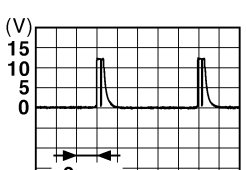
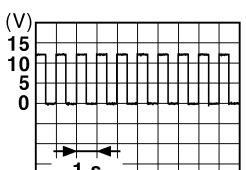
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
(+)	(-)					
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition 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	Input	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>
					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 <ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 2</li> <li>• Wiper intermittent dial 6</li> <li>• Wiper intermittent dial 7</li> </ul>	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3V</p>

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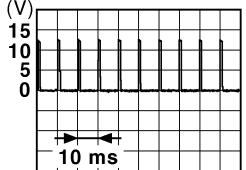
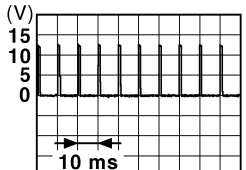
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
76 (R/G)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)  1.4V
					Lighting switch high-beam (Wiper intermittent dial 4)  1.3V
					Lighting switch 2ND (Wiper intermittent dial 4)  1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  1.3V
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 0V
					Blinking  6.5V
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC Battery voltage
				ON 0V	



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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	CTV shift selector (detent switch)	Output	—		Battery voltage
87 (G/B)	Ground	CTV shift selector (detent switch)	Input	Selector lever	P position	0V
					Any position other than P	Battery voltage
88 (P/L)	Ground	Front door RH re- quest switch	Input	Front door RH re- quest switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
89 (B/W)	Ground	Front door LH re- quest switch	Input	Front door LH re- quest switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
90 (Y)	Ground	Front blower motor relay control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power sup- ply	Output	Ignition switch OFF		Battery voltage

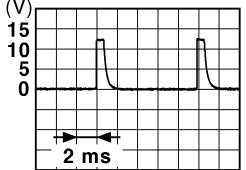

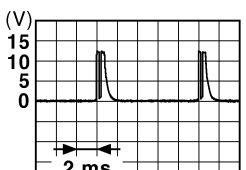
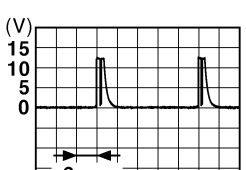
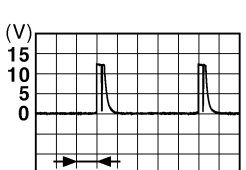
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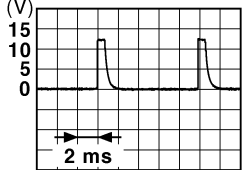
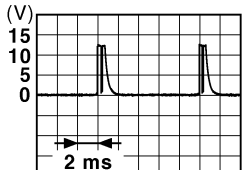
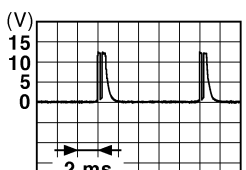
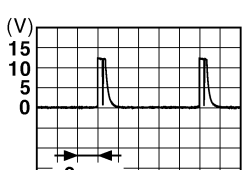
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

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

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
(+)	(-)				
96 (P/B)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="text-align: right; margin-top: 5px;">1.4V</p> </div>
					Lighting switch AUTO (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="text-align: right; margin-top: 5px;">1.3V</p> </div>
					Lighting switch 1ST (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="text-align: right; margin-top: 5px;">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 5</li> <li>• Wiper intermittent dial 6</li> </ul> <div style="text-align: right;">  <p style="text-align: right; margin-top: 5px;">1.3V</p> </div>

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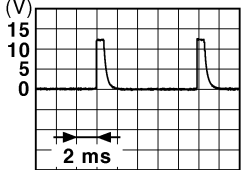

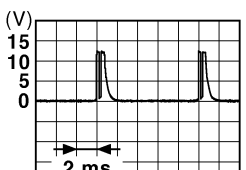
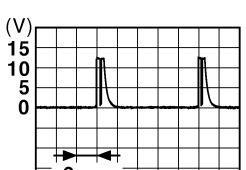
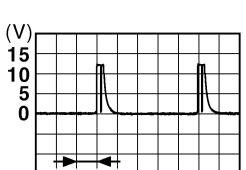
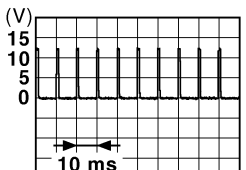
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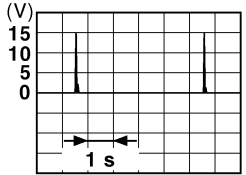
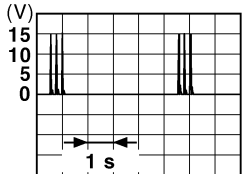
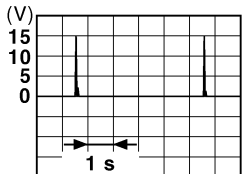
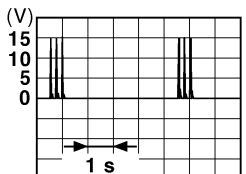
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
97 (R/B)	Ground	Combination switch INPUT 2	Input	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>
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Pressed	0 V
					Not pressed	 <p style="text-align: right;">1.1V</p>

# BCM (BODY CONTROL MODULE)

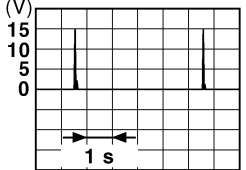
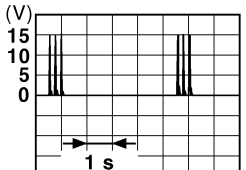
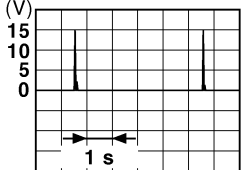
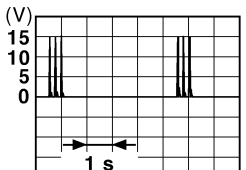
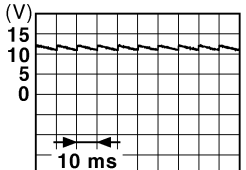
## < ECU DIAGNOSIS >

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  JMKIA0062GB
					When Intelligent Key is not in the passenger compartment  JMKIA0063GB
115 (W)	Ground	Trunk room antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment  JMKIA0062GB
					When Intelligent Key is not in the passenger compartment  JMKIA0063GB

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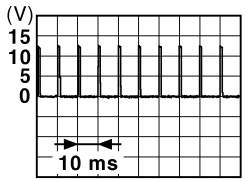
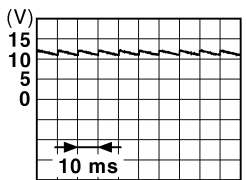
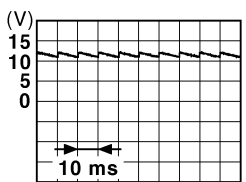
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

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>When Intelligent Key is in the antenna detection area</p>  <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>When Intelligent Key is in the antenna detection area</p>  <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	<p>OFF or ACC</p> <p>Battery voltage</p>
				ON	0V
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	<p>OFF (trunk is closed)</p>  <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	Start signal	Output	Ignition switch ON	<p>When selector lever is in P or N position and the brake peddle is not depressed</p> <p>0V</p>
				When selector lever is in P or N position and the brake peddle is depressed	Battery voltage

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
140 (BR)	Ground	Push-button ignition switch	Input	Engine switch (push switch)	Pressed 0V
				Not pressed Battery voltage	
141 (G/R)	Ground	Trunk request switch	Input	Trunk 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)
				ON (when rear door RH opens)	 <p style="text-align: center;">11.8V</p>
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)
				ON (when rear door LH opens)	 <p style="text-align: center;">11.8V</p>

\*: With LH and RH front window anti-pinch system

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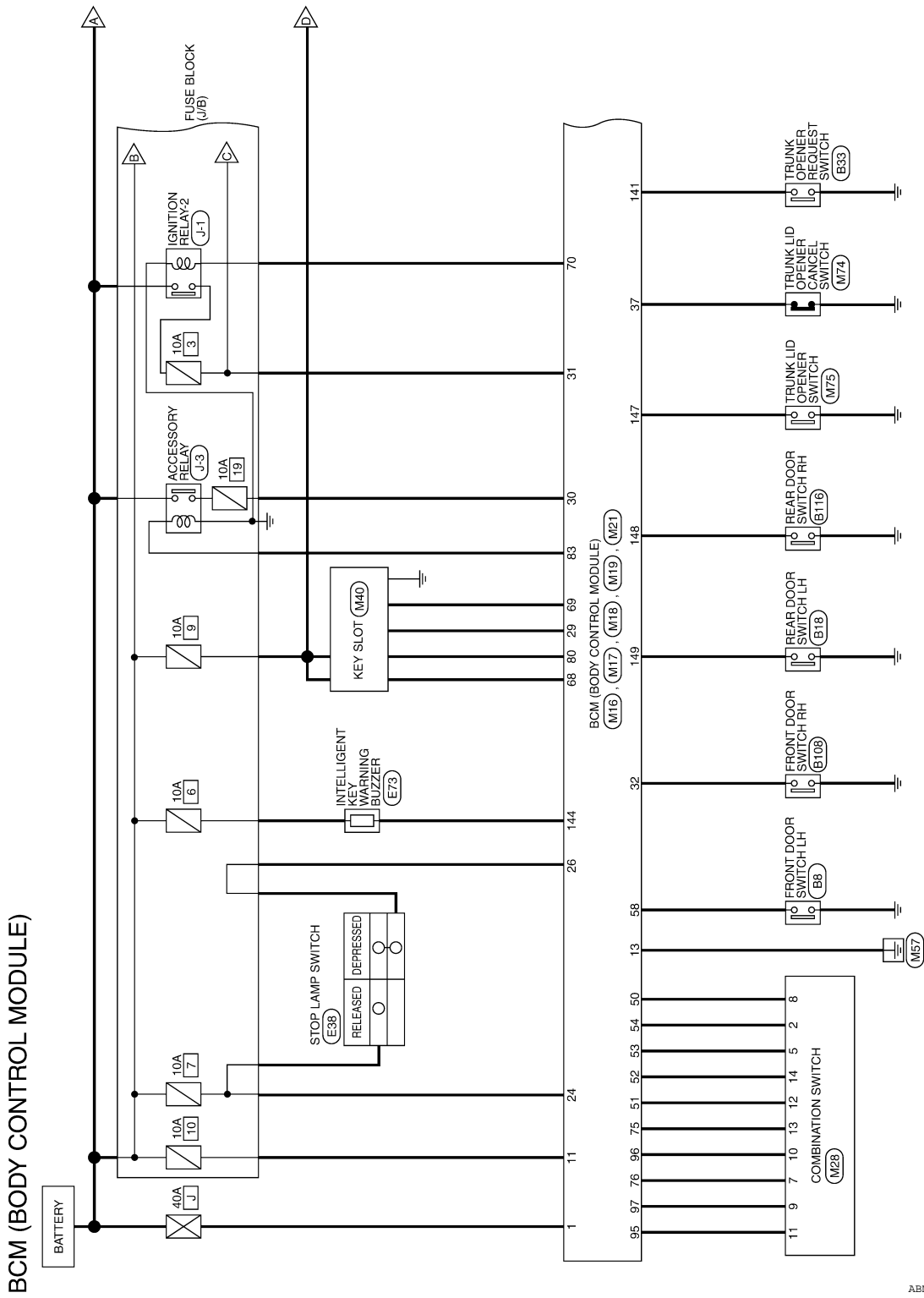
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# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## Wiring Diagram

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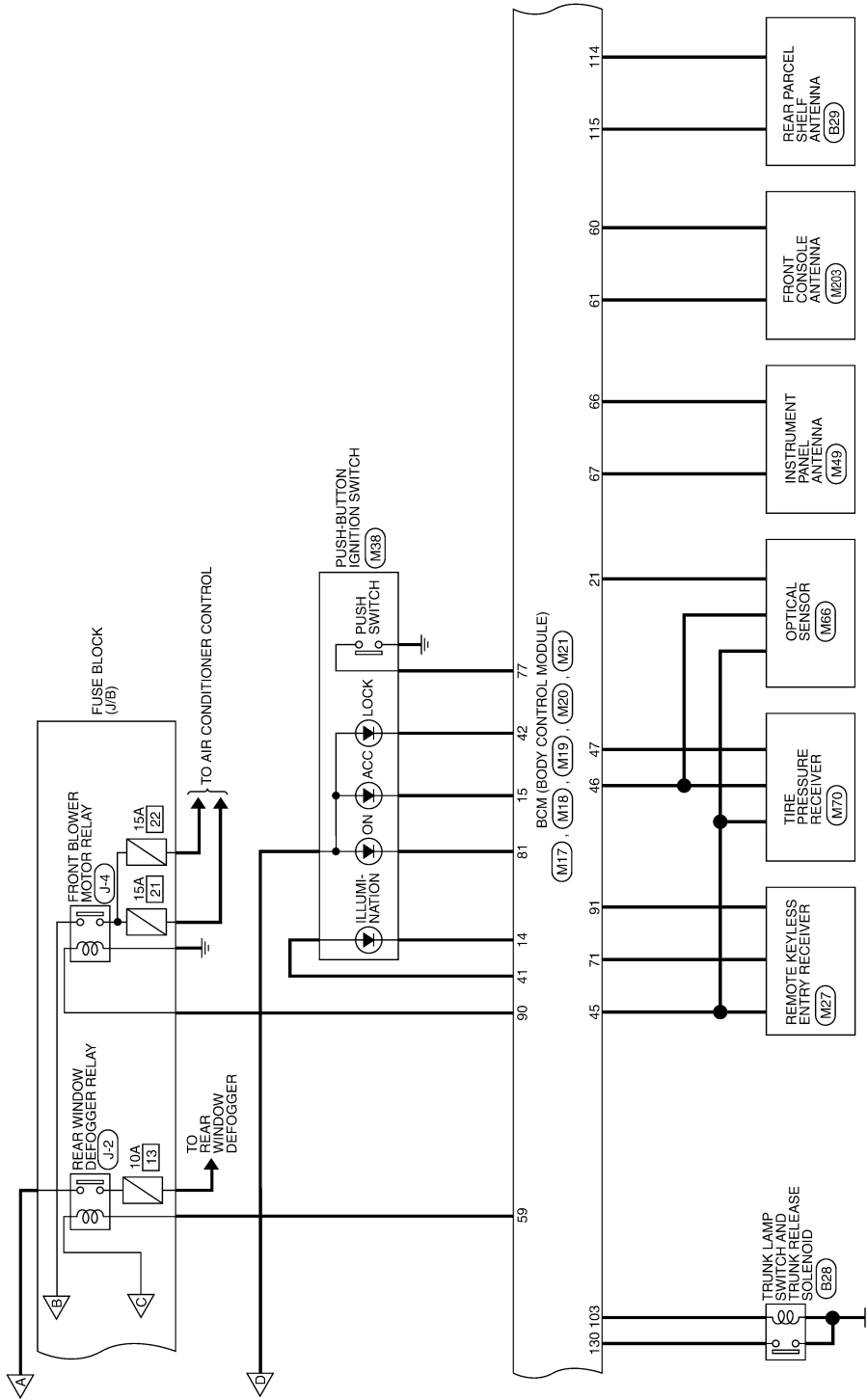


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# BCM (BODY CONTROL MODULE)

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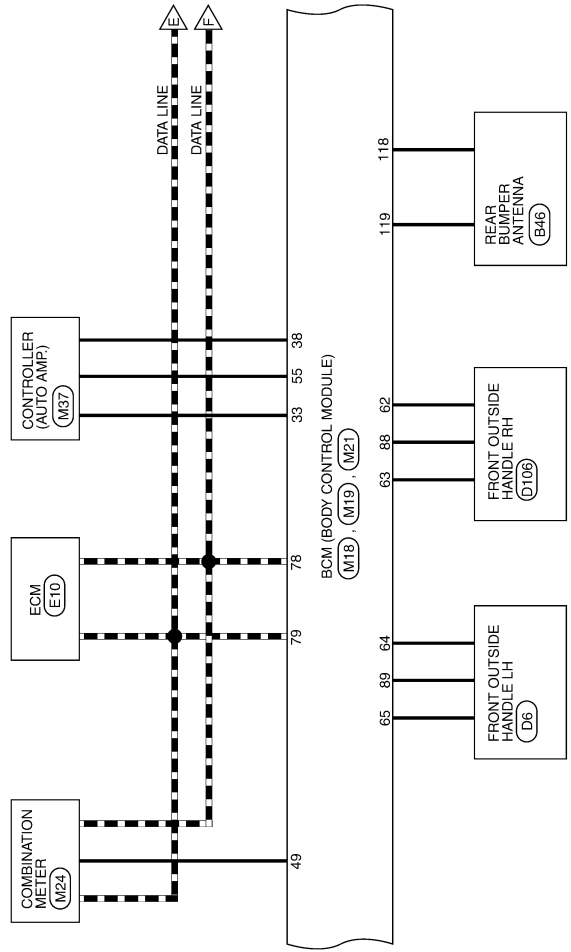
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# BCM (BODY CONTROL MODULE)

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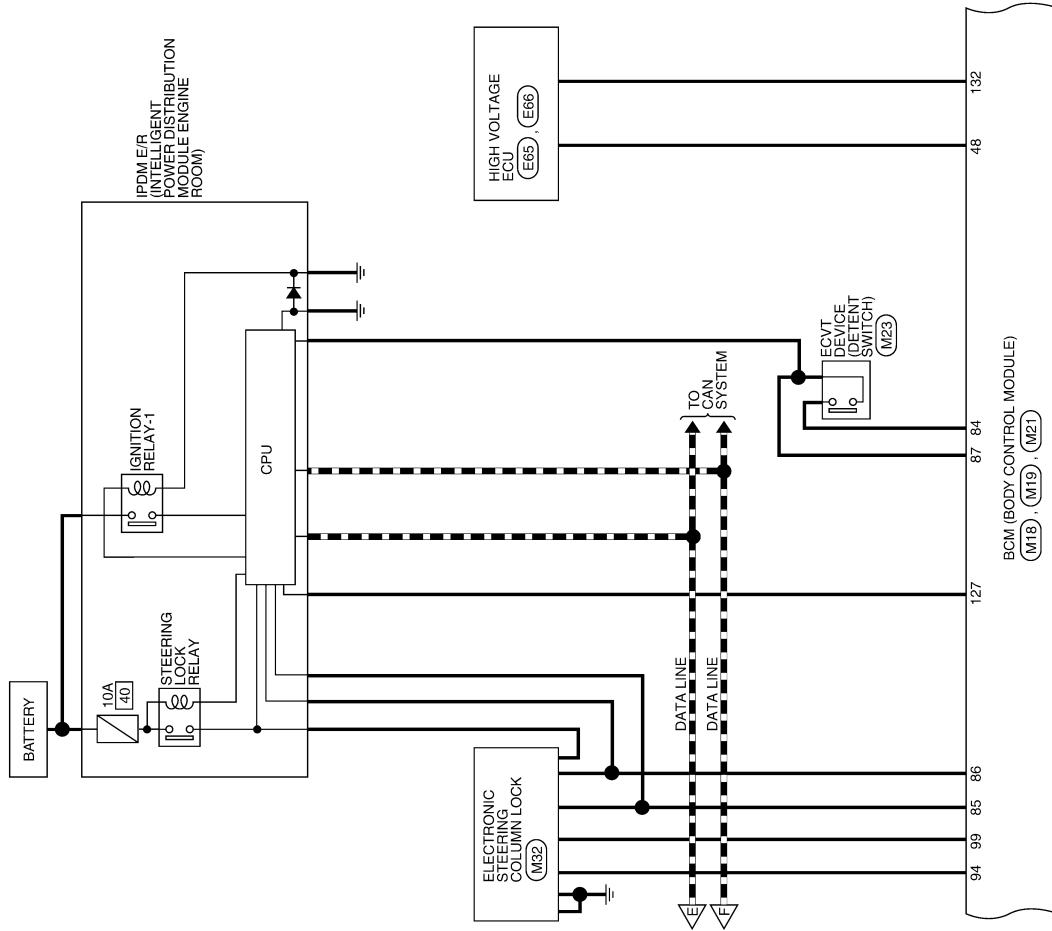


ALMWA0039GB

# BCM (BODY CONTROL MODULE)

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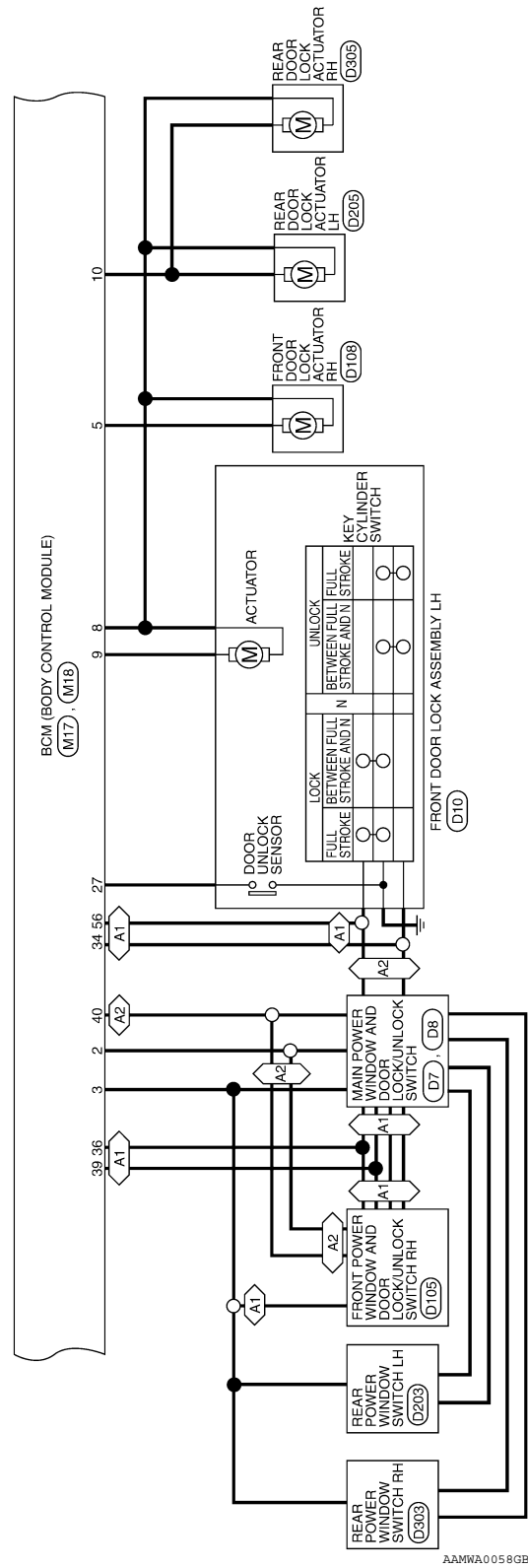


ALMWA0040GB

# BCM (BODY CONTROL MODULE)

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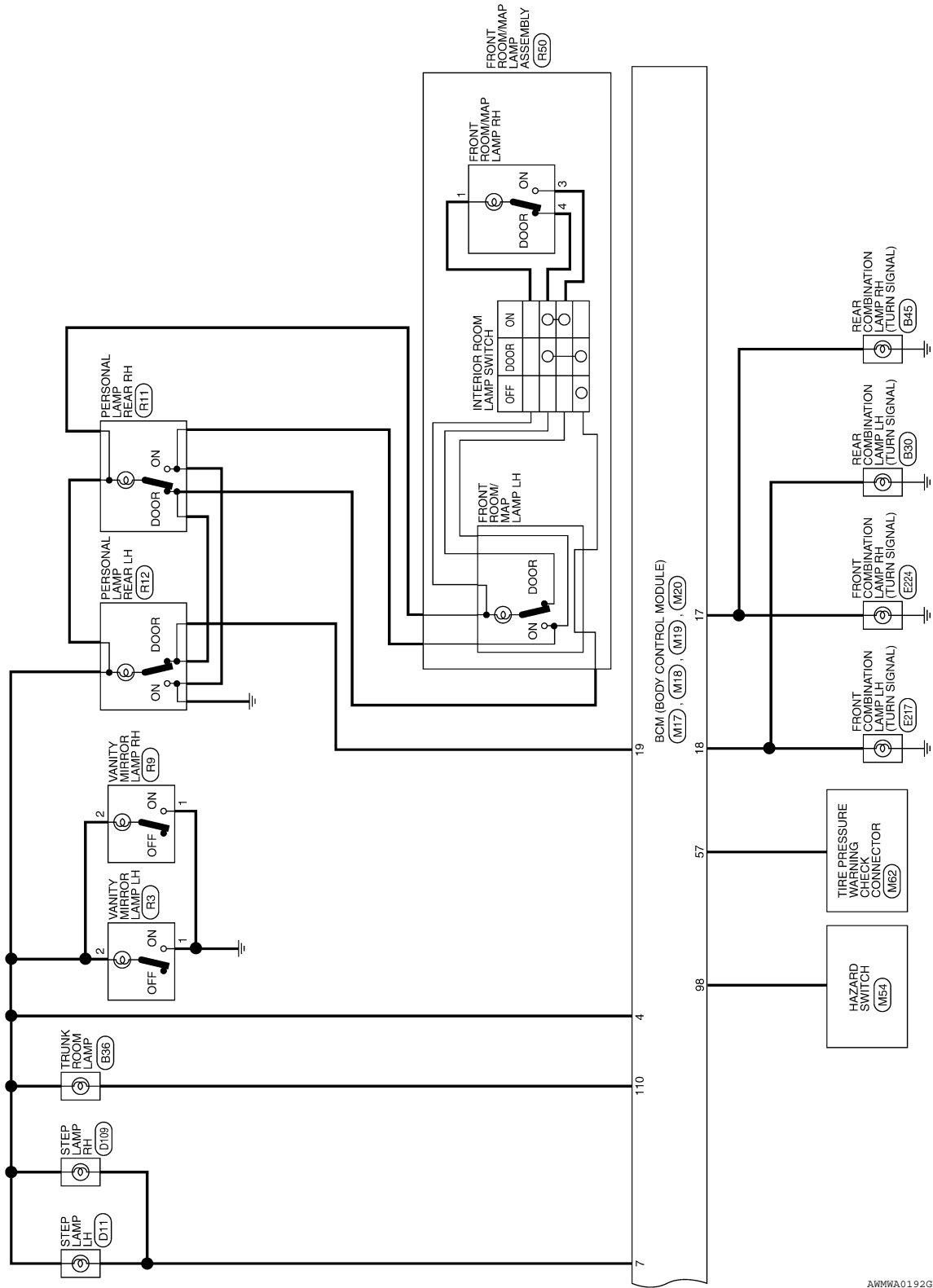
<A1> : WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM  
 <A2> : WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM



AAMWA0058GB

# BCM (BODY CONTROL MODULE)

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# BCM (BODY CONTROL MODULE)

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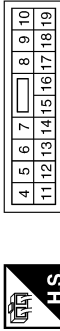
## BCM (BODY CONTROL MODULE) CONNECTORS

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



Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L
2	R/Y	P/W_POWER_SUPPL Y_PERM
3	L/W	POWER_WINDOW_ POWER_SUPPLY (RAP)

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



Terminal No.	Color of Wire	Signal Name
4	P/W	ROOM_LAMP_BAT_ SAVER
5	G/Y	CDL_AS
6	-	-
7	R/W	STEP_LAMP_OUTPUT
8	V	CDL_COMMON

Terminal No.	Color of Wire	Signal Name
9	G	CDL_DR/FL
10	G/Y	CDL_FR_RL_BACK
11	Y/R	BAT_BCM_FUSE
12	-	-
13	B	GND1
14	R/Y	LOW_SIDE_PUSH_LE D_OUTPUT
15	Y/L	ACC_LED
16	-	-
17	G/B	FR_FLASHER
18	G/O	FL_FLASHER
19	Y	ROOM_LAMP_OUTPUT

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



Terminal No.	Color of Wire	Signal Name
27	G/W	DOOR_LOCK_STATUS
28	-	-
29	Y	FOB_IN_SW_1
30	V/Y	ACC F/B
31	G	IGN F/B
32	R/B	AS_DOOR_SW
33	SB	AIRCON_SW
34	L/R	DOOR_KEY/C_ UNLOCK_SW
35	-	-
36	GR	CENTRAL_LOCK_SW
37	O	TRUNK_CANCEL_SW
38	GR/W	REAR_DEFOGGER_SW
39	GR/R	CENTRAL_UNLOCK_SW
40	Y/G	PW_K-LINE
41	W	PUSH_LED
42	R	S/L_LOCK_LED
43	-	-
44	-	-
45	P	GND_RF2_A/L
46	V/W	A/L_SENS_KEYLESS_ TUNER_POWER_SUP PLY

Terminal No.	Color of Wire	Signal Name
20	-	-
21	P/B	AUTO_LIGHT_SEN SOR_INPUT1
22	-	-
23	-	-
24	R/W	STOP_LAMP_LOW_SW
25	-	-
26	O/L	STOP_LAMP_HIGH_SW

Terminal No.	Color of Wire	Signal Name
47	G/O	KEYLESS_TUNER_SI
48	R/B	SHIFT_I/N/P
49	L/O	IMMO_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
55	BR/W	BLOWER_FAN_SW
56	L/B	DOOR_KEY/C_ LOCK_SW
57	W	TPMS_MODE_TRIGG ER_SW
58	SB	DR_DOOR_SW
59	G/R	REAR_DEFOGGER_ RLY

AWM1A0392GB

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No.	Color of Wire	Signal Name
82	-	-
83	L	ACC_CONT
84	Y/R	AT_DEVICE_OUT
85	L/O	S/L_CONDITION_1
86	G/R	S/L_CONDITION_2
87	G/B	SHIFT_P
88	P/L	AS_REQUEST_SWITCH
89	B/W	DR_REQUEST_SWITCH
90	Y	IGN2_CONT
91	L/R	RF1_POWER_SUPPLY
92	-	-
93	-	-
94	G/Y	S/L_POWER_SUPPLY_12V
95	R/W	OUTPUT_1
96	P/B	OUTPUT_4
97	R/B	OUTPUT_2
98	G/R	HAZARD_SW
99	L/Y	S/L_K-LINE

Terminal No.	Color of Wire	Signal Name
62	B/Y	AS_DOOR_ANT_B
63	LG	AS_DOOR_ANT_A
64	V	DR_DOOR_ANT_B
65	P	DR_DOOR_ANT_A
66	R	ROOM_ANT_1_B
67	G	ROOM_ANT_1_A
68	G/O	FOB_READER_CLOCK
69	O	FOB_READER_DATA
70	R/B	IGN_ELEC_SIGNAL
71	L/O	RF1_TUNER_SIGNAL
72	-	-
73	-	-
75	R/Y	OUTPUT_5
76	R/G	OUTPUT_3
77	BR	ENG_START_SW
78	P	CAN-L
79	L	CAN-H
80	R/L	FOB_SLOT_ILLUMINATION
81	LG	IGN_ON_LED

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
60	B/R	ROOM_ANT_2_B
61	W/R	ROOM_ANT_2_A

Terminal No.	Color of Wire	Signal Name
100	-	-
101	-	-
102	-	-
103	V	CDL_BACK_TRUNK
104	-	-
105	-	-
106	-	-
107	-	-
108	-	-
109	-	-
110	V/W	TRUNK_LAMP_OUTPUT
111	-	-

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



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

ALMIA0084GB

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# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No.	Color of Wire	Signal Name
138	-	-
139	-	-
140	-	-
141	G/R	TRUNK_REQUEST_SW
142	-	-
143	-	-
144	GR	BUZZER
145	-	-
146	-	-
147	L/R	BACK_TRUNK_OPENER
148	R/W	RR_DOOR_SW
149	R/B	RL_DOOR_SW
150	-	-
151	-	-

Terminal No.	Color of Wire	Signal Name
119	BR/W	BACK_DOOR_ANT_A
120	-	-
121	-	-
122	-	-
123	-	-
124	-	-
125	-	-
126	-	-
127	BR/W	IGN_USM_CONT1
128	-	-
129	-	-
130	Y/G	TRUNK_SW
131	-	-
132	R	ST_CONT_USM
133	-	-
134	-	-
135	-	-
136	-	-
137	-	-

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	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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Terminal No.	Color of Wire	Signal Name
112	-	-
113	-	-
114	B	TRUNK_ANT_1_B
115	W	TRUNK_ANT_1_A
116	-	-
117	-	-
118	L/O	BACK_DOOR_ANT_B

Terminal No.	Color of Wire	Signal Name
8	LG/B	OUTPUT_5
9	R/B	INPUT_2
10	P/B	INPUT_4
11	R/W	INPUT_1
12	L/W	OUTPUT_1
13	R/Y	INPUT_5
14	G/B	OUTPUT_2
15	-	-
16	-	-

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Terminal No.	Color of Wire	Signal Name
1	R/L	WASH_MTR
2	G/Y	OUTPUT_4
3	-	-
4	-	-
5	LG/R	OUTPUT_3
6	B	GND
7	R/G	INPUT_3

## Fail Safe

AWM1A0393GB

INFOID:000000005783645

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit hybrid system cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit hybrid system cranking	Erase DTC



## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM	Inhibit hybrid system cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit hybrid system cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit hybrid system cranking	Erase DTC
B2562: LOW VOLTAGE	Inhibit hybrid system cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2563: HI VOLTAGE	Inhibit hybrid system cranking	500 ms after the power supply voltage decreases to less than 18 V
B260A: IGNITION RELAY	Inhibit hybrid system 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 hybrid system status signal (CAN)</li> </ul>
B2617: STARTER RELAY CIRC	Inhibit hybrid system cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit hybrid system cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit hybrid system cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit hybrid system cranking	When any of the following conditions is fulfilled <ul style="list-style-type: none"> <li>• Power position changes to ACC</li> <li>• Receives hybrid system status signal (CAN)</li> </ul>

### DTC Inspection Priority Chart

INFOID:000000005783646

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: LOW VOLTAGE</li> <li>• B2563: HI VOLTAGE</li> <li>• B261E: VEHICLE TYPE</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> <li>• B2195: ANTI SCANNING</li> </ul>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Priority	DTC
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>• B2601: SHIFT POSITION</li> <li>• B2602: SHIFT POSITION</li> <li>• B2603: SHIFT POSI STATUS</li> <li>• B2604: TRANSMISSION RANGE SWITCH</li> <li>• B260A: IGNITION RELAY</li> <li>• B260F: ENG STATE SIG LOST</li> <li>• B2611: ACC RELAY</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>• B261E: VEHICLE TYPE</li> <li>• B26E1: ENG STATE NO RECIV</li> <li>• B26EA: KEY REGISTRATION</li> <li>• C1729: VHCL SPEED SIG ERR</li> <li>• U0415: VEHICLE SPEED SIG</li> </ul>
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:000000005783647

### 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 like 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.

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

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.	—	—	—	—	A
U1000: CAN COMM CIRCUIT	—	—	—	<a href="#">BCS-36</a>	B
U1010: CONTROL UNIT (CAN)	—	—	—	<a href="#">BCS-37</a>	C
U0415: VEHICLE SPEED SIG	—	—	—	<a href="#">BCS-38</a>	
B2190: NATS ANTENNA AMP	×	—	—	<a href="#">SEC-30</a>	D
B2191: DIFFERENCE OF KEY	×	—	—	<a href="#">SEC-33</a>	
B2192: ID DISCORD BCM-ECM	×	—	—	<a href="#">SEC-34</a>	E
B2193: CHAIN OF BCM-ECM	×	—	—	<a href="#">SEC-35</a>	
B2195: ANTI SCANNING	×	—	—	<a href="#">SEC-36</a>	F
B2553: IGNITION RELAY	—	—	—	<a href="#">PCS-50</a>	
B2555: STOP LAMP	—	—	—	<a href="#">SEC-37</a>	G
B2556: PUSH-BTN IGN SW	—	×	—	<a href="#">SEC-40</a>	
B2557: VEHICLE SPEED	×	×	—	<a href="#">SEC-42</a>	H
B2562: LOW VOLTAGE	—	—	—	<a href="#">BCS-39</a>	
B2563: HI VOLTAGE	×	×	—	<a href="#">BCS-40</a>	I
B2601: SHIFT POSITION	×	×	—	<a href="#">SEC-43</a>	
B2602: SHIFT POSITION	×	×	—	<a href="#">SEC-46</a>	J
B2603: SHIFT POSI STATUS	×	×	—	<a href="#">SEC-49</a>	
B2604: TRANSMISSION RANGE SWITCH	×	×	—	<a href="#">SEC-52</a>	K
B260A: IGNITION RELAY	×	×	—	<a href="#">PCS-52</a>	
B260F: ENG STATE SIG LOST	×	×	—	<a href="#">SEC-54</a>	INL
B2611: ACC RELAY	—	—	—	<a href="#">PCS-53</a>	
B2614: ACC RELAY CIRC	—	×	—	<a href="#">PCS-55</a>	M
B2615: BLOWER RELAY CIRC	—	×	—	<a href="#">PCS-58</a>	
B2616: IGN RELAY CIRC	—	×	—	<a href="#">PCS-61</a>	N
B2617: STARTER RELAY CIRC	×	×	—	<a href="#">SEC-56</a>	
B2618: BCM	×	×	—	<a href="#">PCS-64</a>	O
B261A: PUSH-BTN IGN SW	—	×	—	<a href="#">SEC-58</a>	
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	—	<a href="#">SEC-60</a>	P
B2622: INSIDE ANTENNA	—	—	—	<a href="#">DLK-55</a>	
B2623: INSIDE ANTENNA	—	—	—	<a href="#">DLK-58</a>	
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	—	<a href="#">SEC-55. "Description"</a>	
C1704: LOW PRESSURE FL	—	—	×	<a href="#">WT-8</a>	
C1705: LOW PRESSURE FR	—	—	×	<a href="#">WT-8</a>	
C1706: LOW PRESSURE RR	—	—	×	<a href="#">WT-8</a>	
C1707: LOW PRESSURE RL	—	—	×	<a href="#">WT-8</a>	
C1708: [NO DATA] FL	—	—	×	<a href="#">WT-14</a>	
C1709: [NO DATA] FR	—	—	×	<a href="#">WT-14</a>	
C1710: [NO DATA] RR	—	—	×	<a href="#">WT-14</a>	
C1711: [NO DATA] RL	—	—	×	<a href="#">WT-14</a>	

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1712: [CHECKSUM ERR] FL	—	—	×	<a href="#">WT-16</a>
C1713: [CHECKSUM ERR] FR	—	—	×	<a href="#">WT-16</a>
C1714: [CHECKSUM ERR] RR	—	—	×	<a href="#">WT-16</a>
C1715: [CHECKSUM ERR] RL	—	—	×	<a href="#">WT-16</a>
C1716: [PRESSDATA ERR] FL	—	—	×	<a href="#">WT-18</a>
C1717: [PRESSDATA ERR] FR	—	—	×	<a href="#">WT-18</a>
C1718: [PRESSDATA ERR] RR	—	—	×	<a href="#">WT-18</a>
C1719: [PRESSDATA ERR] RL	—	—	×	<a href="#">WT-18</a>
C1720: [CODE ERR] FL	—	—	×	<a href="#">WT-16</a>
C1721: [CODE ERR] FR	—	—	×	<a href="#">WT-16</a>
C1722: [CODE ERR] RR	—	—	×	<a href="#">WT-16</a>
C1723: [CODE ERR] RL	—	—	×	<a href="#">WT-16</a>
C1724: [BATT VOLT LOW] FL	—	—	×	<a href="#">WT-16</a>
C1725: [BATT VOLT LOW] FR	—	—	×	<a href="#">WT-16</a>
C1726: [BATT VOLT LOW] RR	—	—	×	<a href="#">WT-16</a>
C1727: [BATT VOLT LOW] RL	—	—	×	<a href="#">WT-16</a>
C1729: VHCL SPEED SIG ERR	—	—	×	<a href="#">WT-19</a>
C1734: CONTROL UNIT	—	—	×	<a href="#">WT-20</a>

# INTERIOR ROOM LAMP

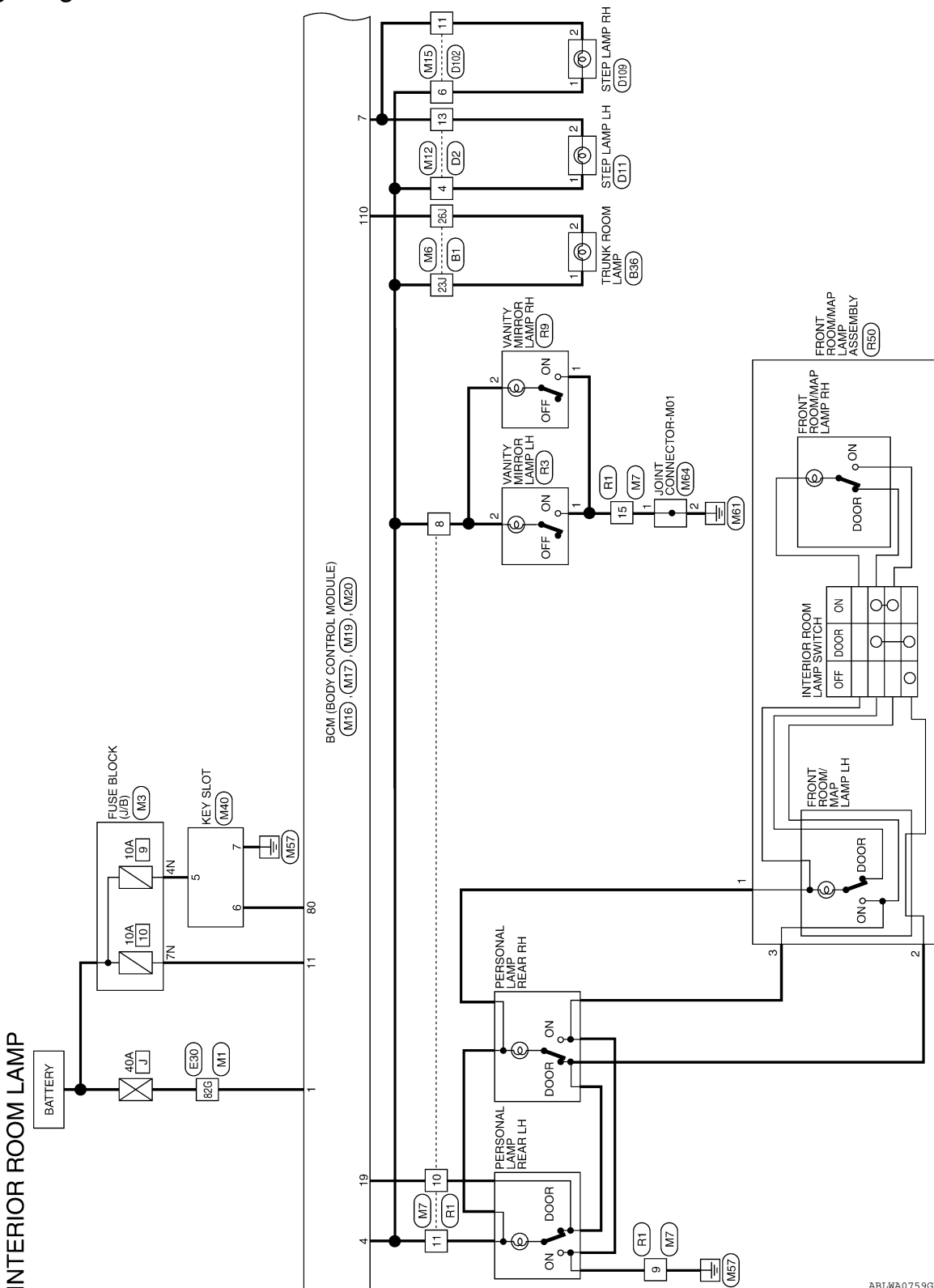
< WIRING DIAGRAM >

## WIRING DIAGRAM

### INTERIOR ROOM LAMP

Wiring Diagram

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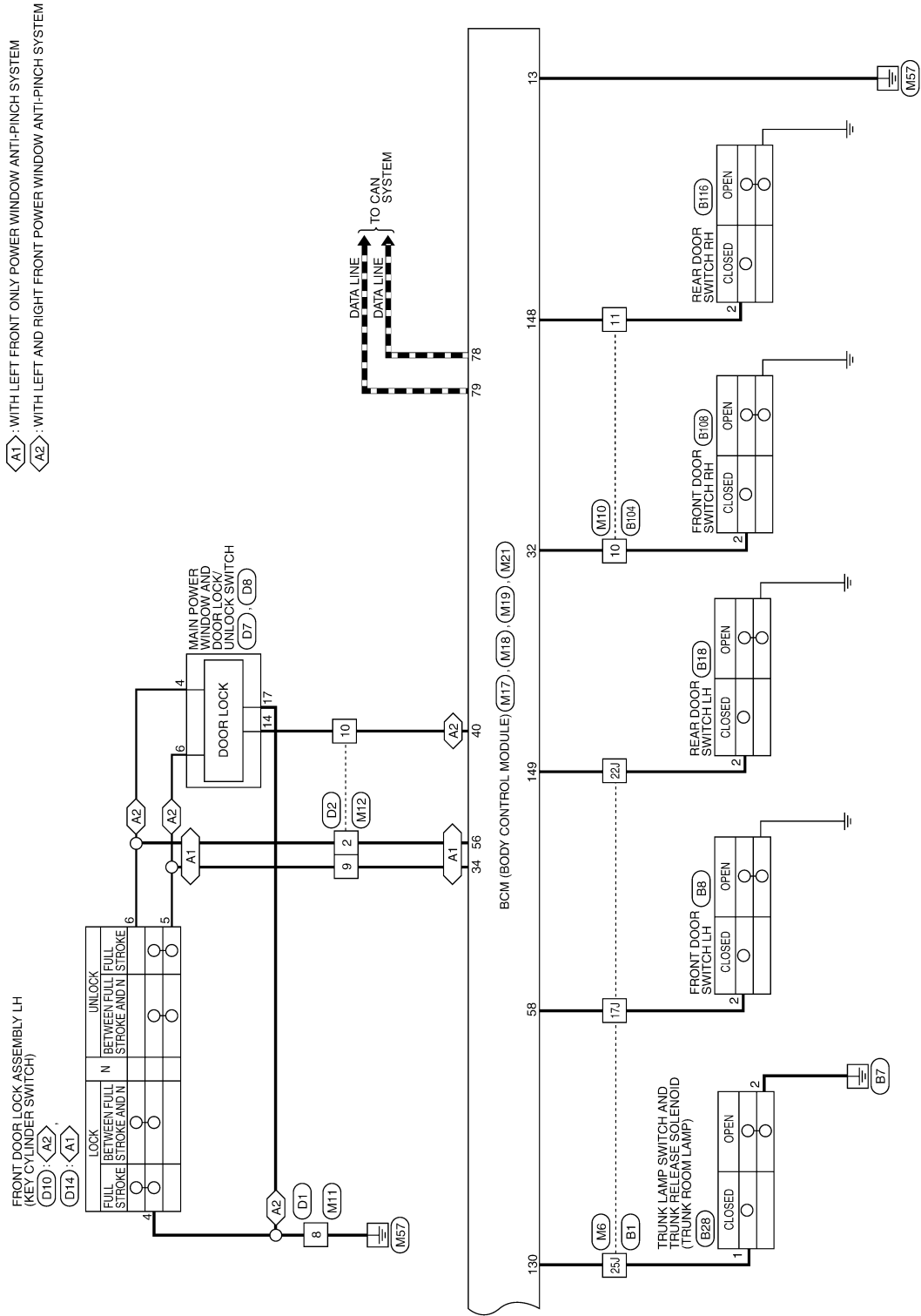


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# INTERIOR ROOM LAMP

< WIRING DIAGRAM >



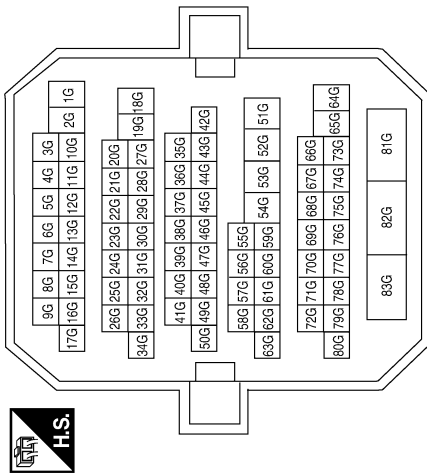
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# INTERIOR ROOM LAMP

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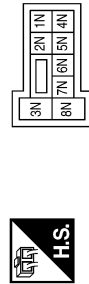
## INTERIOR ROOM LAMP CONNECTORS

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



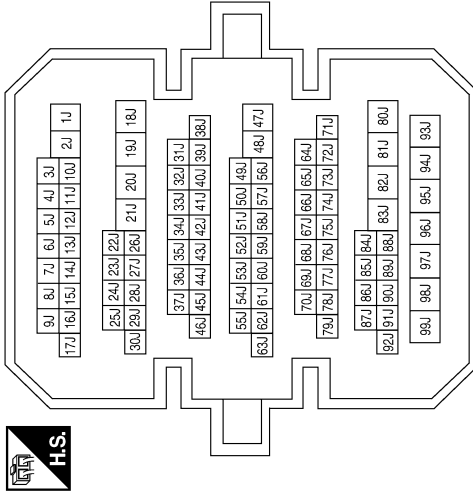
Terminal No.	Color of Wire	Signal Name
82G	W/B	-

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



Terminal No.	Color of Wire	Signal Name
4N	G/Y	-
7N	Y/R	-

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



Terminal No.	Color of Wire	Signal Name
17J	SB	-
22J	R/B	-
23J	P/W	-
25J	Y/G	-
26J	V/W	-

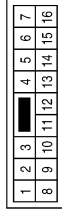
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# INTERIOR ROOM LAMP

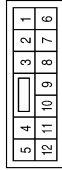
< WIRING DIAGRAM >

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



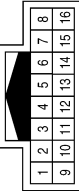
Terminal No.	Color of Wire	Signal Name
8	B	-

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



Terminal No.	Color of Wire	Signal Name
10	R/B	-
11	R/W	-

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



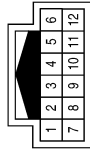
Terminal No.	Color of Wire	Signal Name
8	P/W	-
9	B	-
10	Y	-
11	P/W	-
15	B	-

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



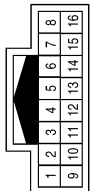
Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L

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



Terminal No.	Color of Wire	Signal Name
6	P/W	-
11	R/W	-

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



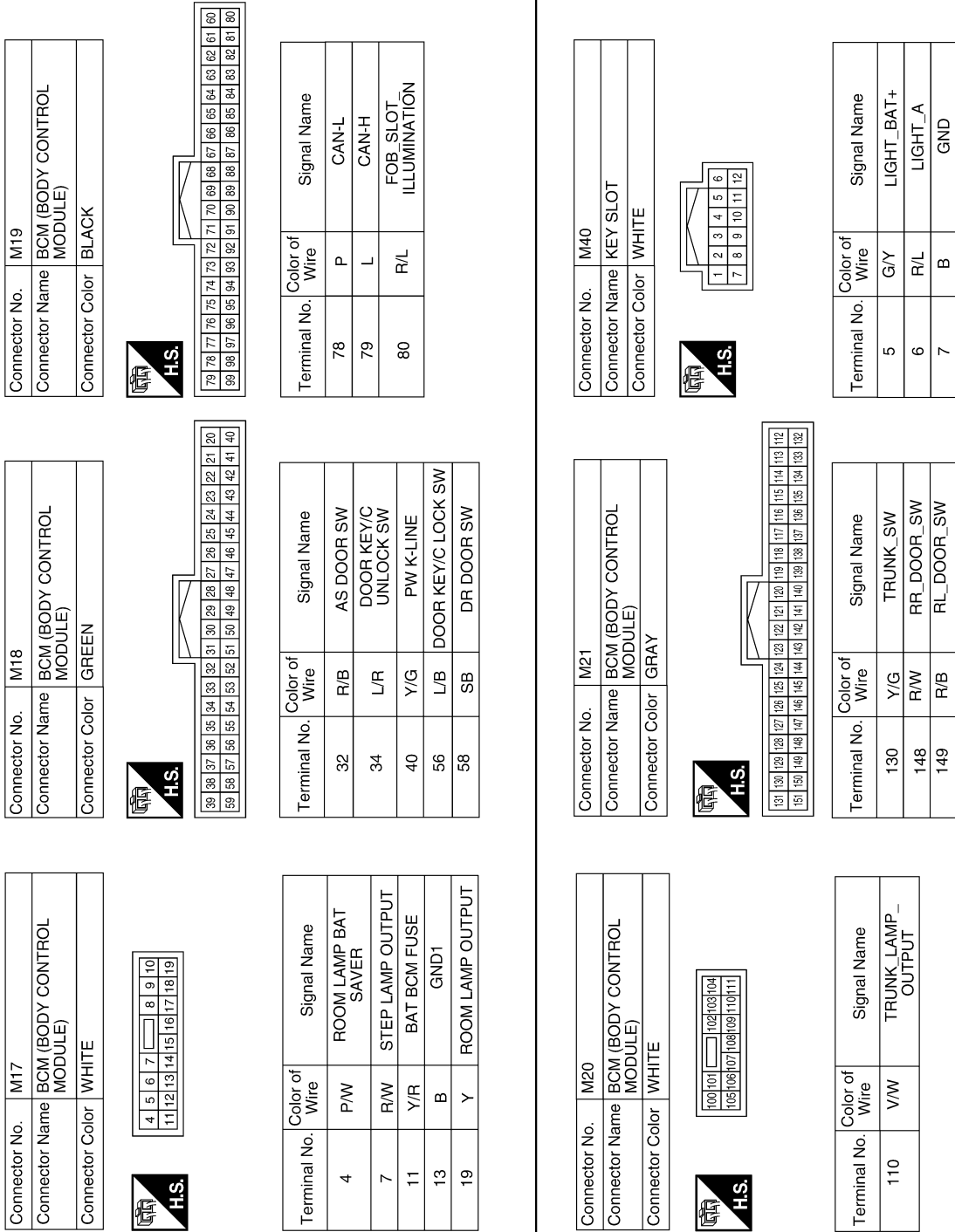
Terminal No.	Color of Wire	Signal Name
2	L/B	-
4	P/W	-
9	L/R	-
10	Y/G	-
13	R/W	-

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# INTERIOR ROOM LAMP

< WIRING DIAGRAM >



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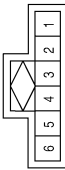
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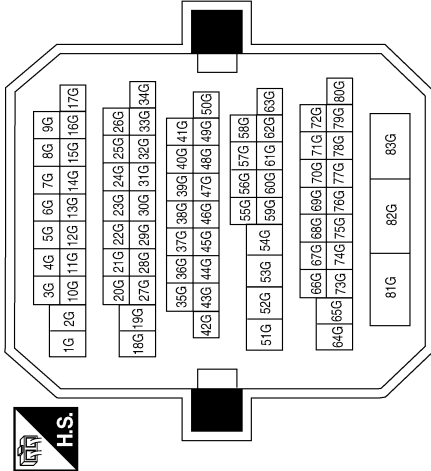
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Connector No.	M64
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



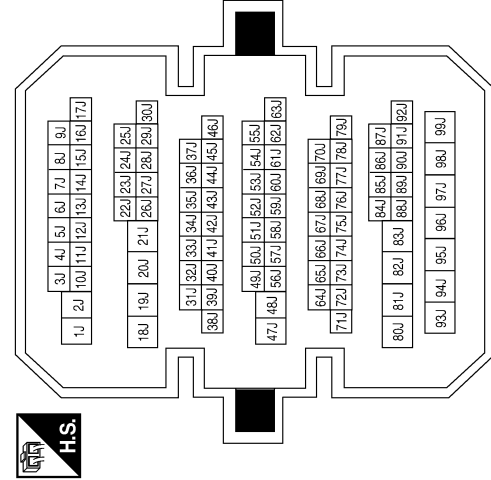
Terminal No.	Color of Wire	Signal Name
1	B	-
2	B	-

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
17J	SB	-
22J	R/B	-
23J	L	-
25J	W	-
26J	Y	-

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# INTERIOR ROOM LAMP

## < WIRING DIAGRAM >

Connector No.	B28
Connector Name	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color	WHITE



2	1	3
4		

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

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



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

Terminal No.	Color of Wire	Signal Name
2	BR	DOOR SW (RL)

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



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

Terminal No.	Color of Wire	Signal Name
2	SB	DOOR SW (DR)

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



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

Terminal No.	Color of Wire	Signal Name
2	GR	DOOR SW (AS)

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



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

Terminal No.	Color of Wire	Signal Name
10	GR	-
11	B	-

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



1	2
---	---

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

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# INTERIOR ROOM LAMP

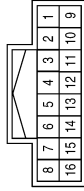
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Connector No.	R3
Connector Name	VANITY MIRROR LAMP LH
Connector Color	WHITE



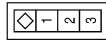
Terminal No.	Color of Wire	Signal Name
1	B	GND
2	P	ROOM_LAMP_BAT_SAVER

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



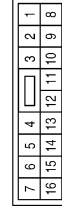
Terminal No.	Color of Wire	Signal Name
8	P	-
9	W	-
10	W	-
11	W	-
15	B	-

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



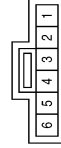
Terminal No.	Color of Wire	Signal Name
2	B	DOOR SW (RR)

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



Terminal No.	Color of Wire	Signal Name
2	B	-

Connector No.	R50
Connector Name	FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	GRAY



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

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



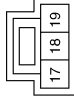
Terminal No.	Color of Wire	Signal Name
1	B	GND
2	P	ROOM_LAMP_BAT_SAVER

ABLTA2137GB

# INTERIOR ROOM LAMP

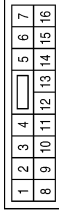
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Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



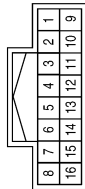
Terminal No.	Color of Wire	Signal Name
17	B	GND

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	WHITE



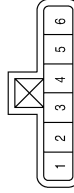
Terminal No.	Color of Wire	Signal Name
4	L/B	LOCK
6	L/R	UNLOCK
14	BR	COM

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



Terminal No.	Color of Wire	Signal Name
2	L/B	-
4	LG	-
9	L/R	-
10	BR	-
13	Y	-

Connector No.	D14
Connector Name	FRONT DOOR LOCK ASSEMBLY LH (WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	GRAY



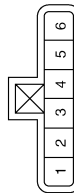
Terminal No.	Color of Wire	Signal Name
4	B	GND
5	L/R	DOOR KEY/C UNLOCK SW
6	L/B	DOOR KEY/C LOCK SW

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



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

Connector No.	D10
Connector Name	FRONT DOOR LOCK ASSEMBLY LH (WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
4	B	GND
5	L/R	DOOR_KEY/C_UNLOCK_SW
6	L/B	DOOR_KEY/C_LOCK_SW

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# INTERIOR ROOM LAMP

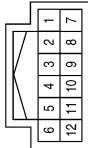
< WIRING DIAGRAM >

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



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

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



Terminal No.	Color of Wire	Signal Name
6	LG	-
11	Y	-

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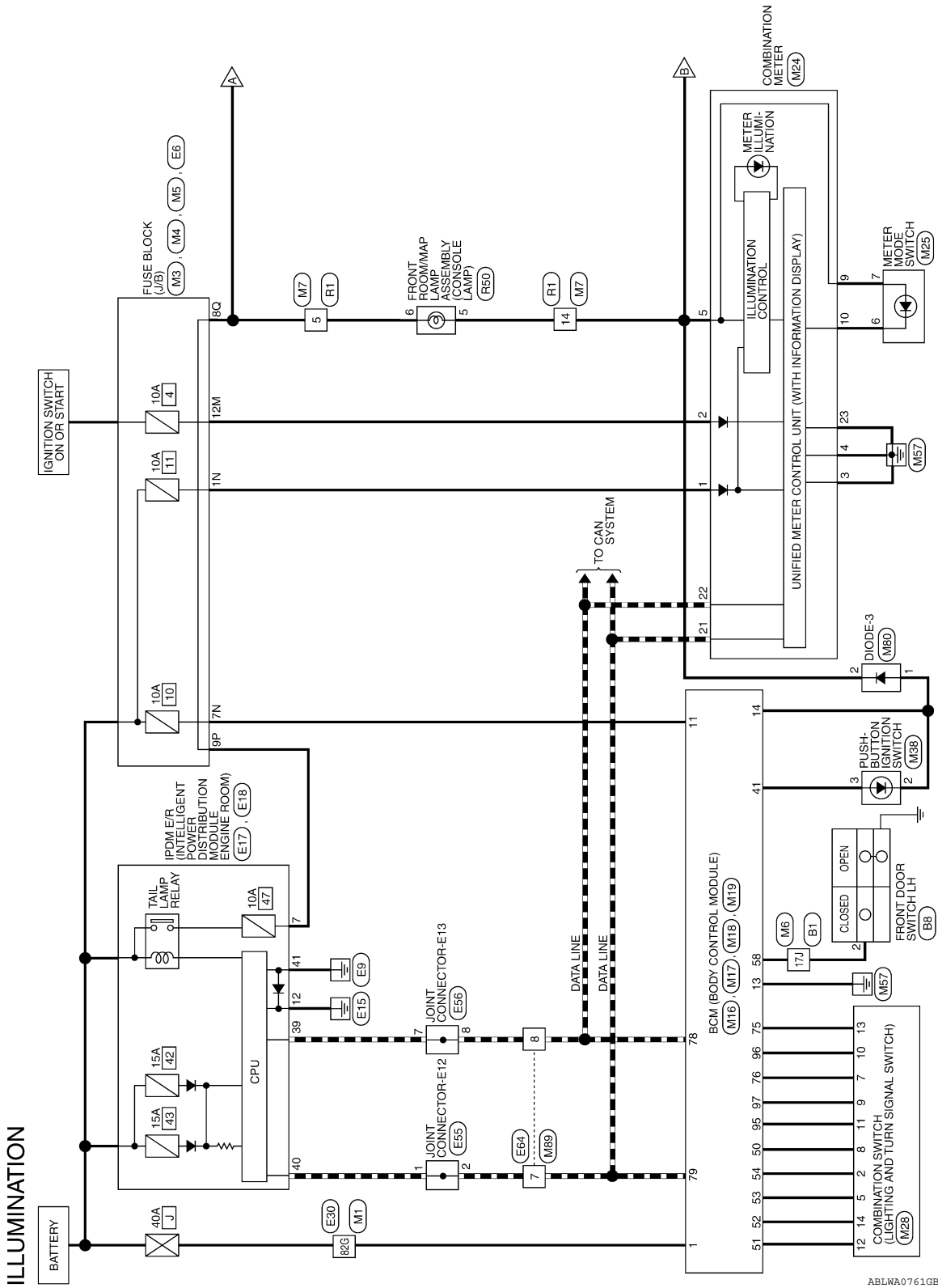
# ILLUMINATION

< WIRING DIAGRAM >

## ILLUMINATION

### Wiring Diagram

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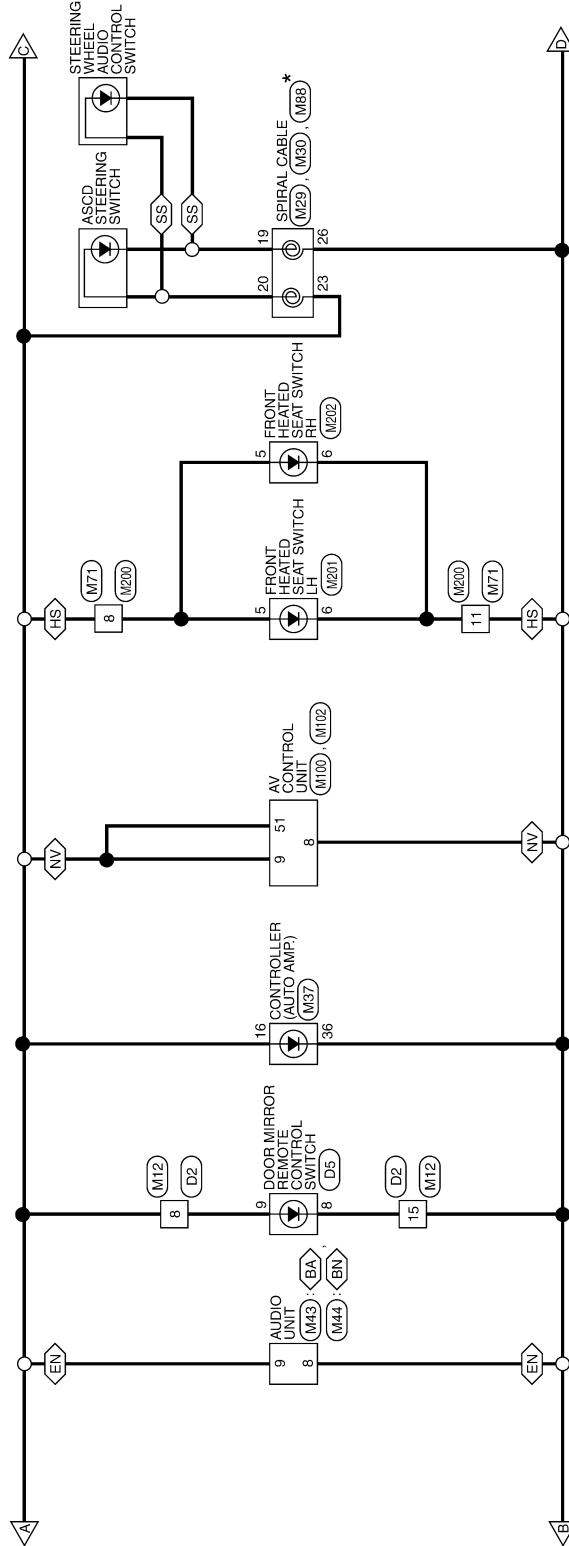
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# ILLUMINATION

< WIRING DIAGRAM >

- ◊BA◊ : WITH BASE AUDIO SYSTEM
- ◊BN◊ : WITH BOSE AUDIO SYSTEM WITHOUT NAVI
- ◊EN◊ : WITHOUT NAVI
- ◊HS◊ : WITH HEATED SEATS
- ◊NV◊ : WITH NAVI
- ◊SS◊ : WITH STEERING WHEEL AUDIO CONTROL SWITCHES



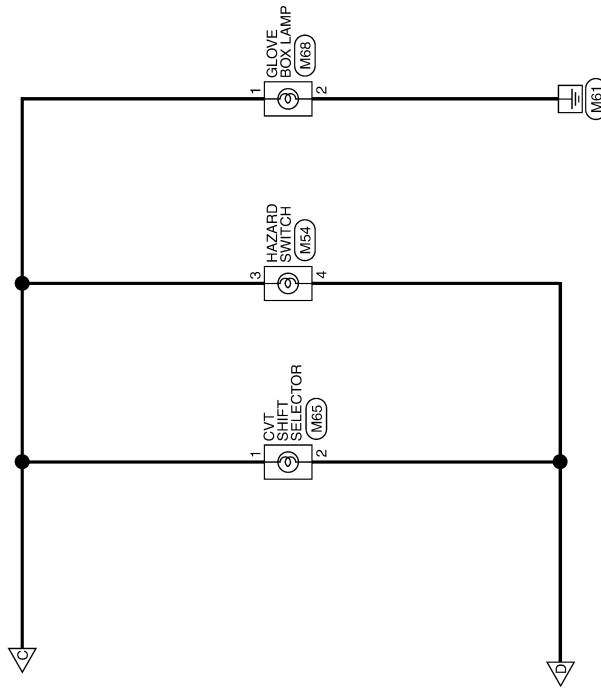
\* : THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

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# ILLUMINATION

< WIRING DIAGRAM >



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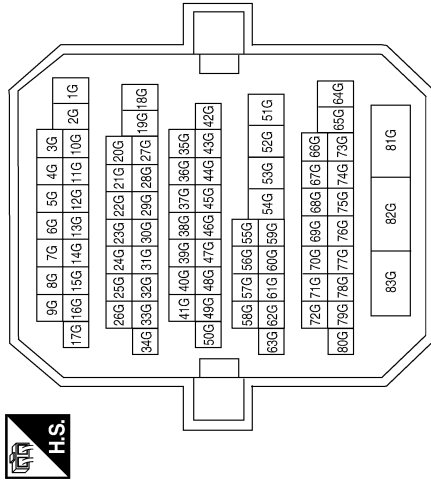
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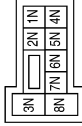
## ILLUMINATION CONNECTORS

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



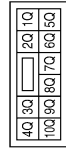
Terminal No.	82G	Color of Wire	W/B	Signal Name	-
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Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

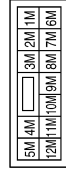


Terminal No.	Color of Wire	Signal Name
1N	W/L	-
7N	Y/R	-

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



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



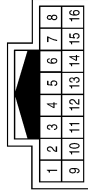
Terminal No.	8Q	Color of Wire	R/L	Signal Name	-
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Terminal No.	12M	Color of Wire	O	Signal Name	-
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# ILLUMINATION

< WIRING DIAGRAM >

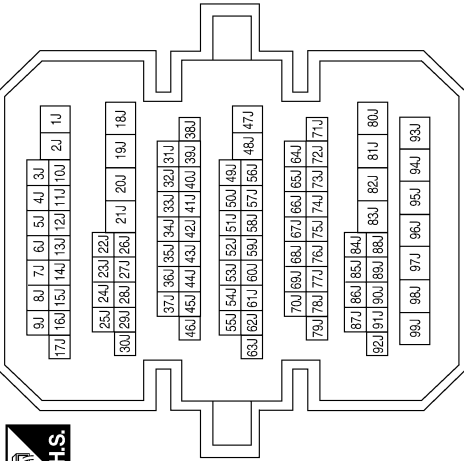
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	17J	Color of Wire	SB	Signal Name	-
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Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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



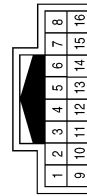
Terminal No.	Color of Wire	Signal Name
11	Y/R	BAT_BCM_FUSE
13	B	GND1
14	R/Y	LOW_SIDE_PUSH_LED_OUTPUT

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



Terminal No.	1	Color of Wire	W/B	Signal Name	BAT_POWER_F/L
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Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

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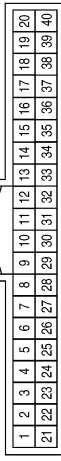
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# ILLUMINATION


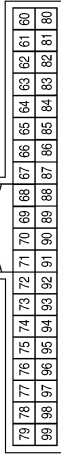
< WIRING DIAGRAM >

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE


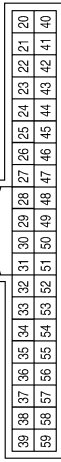
Terminal No.	Color of Wire	Signal Name
1	W/L	BAT
2	O	IGN
3	B	GND (POWER)
4	B	GND (ILL)
5	R/Y	ILL OUTPUT
9	GR/W	SW ILL PWR
10	O/L	GND (SATELLITE SW)
21	L	CAN-H
22	P	CAN-L
23	B	GND (CIRCUIT)

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

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

Terminal No.	Color of Wire	Signal Name
41	W	PUSH_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
58	SB	DR_DOOR_SW

Terminal No.	Color of Wire	Signal Name
2	G/Y	OUTPUT_4
5	LG/R	OUTPUT_3
7	R/G	INPUT_3
8	LG/B	OUTPUT_5
9	R/B	INPUT_2
10	P/B	INPUT_4
11	R/W	INPUT_1
12	L/W	OUTPUT_1
13	R/Y	INPUT_5
14	G/B	OUTPUT_2

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE




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




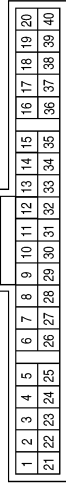

Terminal No.	Color of Wire	Signal Name
6	O/L	GND(SATELLITE SW)
7	GR/W	SW ILL POWER

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# ILLUMINATION

## < WIRING DIAGRAM >

Connector No.	M37
Connector Name	CONTROLLER (AUTO AMP.)
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
16	R/L	ILL +
36	R/Y	ILL-

Connector No.	M30
Connector Name	SPIRAL CABLE
Connector Color	GRAY




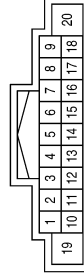

Terminal No.	Color of Wire	Signal Name
26	R/L	ILL_CONT_OUT

Connector No.	M29
Connector Name	SPIRAL CABLE
Connector Color	YELLOW




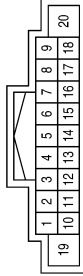

Terminal No.	Color of Wire	Signal Name
23	R/L	TAIL/ILL_RLY

Connector No.	M44
Connector Name	AUDIO UNIT (WITH BOSE AUDIO SYSTEM WITHOUT NAVI)
Connector Color	WHITE


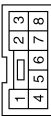
Terminal No.	Color of Wire	Signal Name
8	R/Y	ILL_CONT_OUT
9	R/L	TAIL/ILL_RLT

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

Terminal No.	Color of Wire	Signal Name
8	R/Y	ILL_CONT_OUT
9	R/L	TAIL/ILL_RLY

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

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

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# ILLUMINATION

< WIRING DIAGRAM >

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



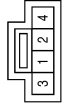
Terminal No.	Color of Wire	Signal Name
1	R/L	TAIL/ILL_RLY
2	B	GND

Connector No.	M65
Connector Name	CVT SHIFT SELECTOR
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R/L	TAIL/ILL_RLY
2	R/Y	ILL_CONT_OUT

Connector No.	M54
Connector Name	HAZARD SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R/L	TAIL/ILL_RLY
4	R/Y	ILL_CONT_OUT

Connector No.	M88
Connector Name	SPIRAL CABLE
Connector Color	GRAY



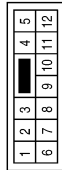
Terminal No.	Color of Wire	Signal Name
19	P	ILL-
20	Y	ILL+

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



Terminal No.	Color of Wire	Signal Name
1	O/W	LOW_SIDE_PUSH_LED_OUTPUT
2	R/Y	ILL_CONT_OUT

Connector No.	M71
Connector Name	WIRE TO WIRE
Connector Color	WHITE




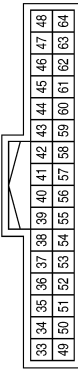
Terminal No.	Color of Wire	Signal Name
8	R/L	-
11	R/Y	-

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# ILLUMINATION


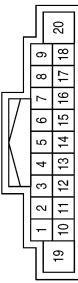
< WIRING DIAGRAM >

Connector No.	M102
Connector Name	AV CONTROL UNIT (BOSE AUDIO SYSTEM WITH NAVI)
Connector Color	WHITE


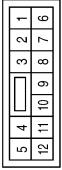
Terminal No.	Color of Wire	Signal Name
51	R/L	MR OUTPUT

Connector No.	M100
Connector Name	AV CONTROL UNIT (BOSE AUDIO SYSTEM WITH NAVI)
Connector Color	WHITE



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

Connector No.	M89
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	M202
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Color	BROWN


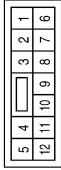
Terminal No.	Color of Wire	Signal Name
5	R/L	TAIL/ILL_RLY
6	R/Y	ILL_CONT_OUT

Connector No.	M201
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
5	R/L	TAIL/ILL_RLY
6	R/Y	ILL_CONT_OUT

Connector No.	M200
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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

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# ILLUMINATION

< WIRING DIAGRAM >

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)

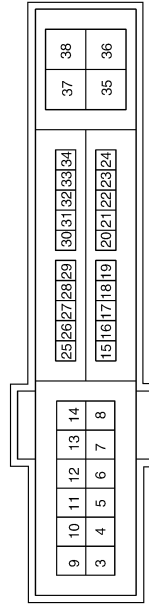
Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



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

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

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



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# ILLUMINATION

< WIRING DIAGRAM >

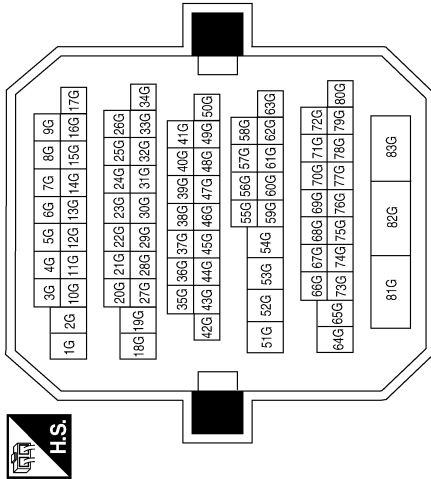
Connector No.	E55
Connector Name	JOINT CONNECTOR-E12
Connector Color	WHITE



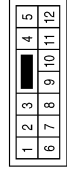
Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Terminal No.	82G	Color of Wire	LG	Signal Name	-
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Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE

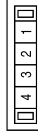


Connector No.	E64
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	E56
Connector Name	JOINT CONNECTOR-E13
Connector Color	WHITE



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

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# ILLUMINATION

< WIRING DIAGRAM >

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

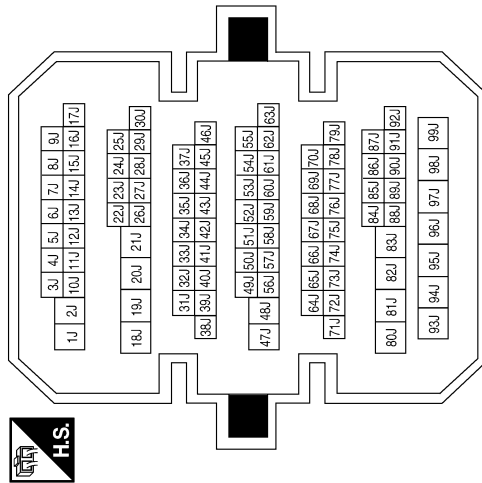


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Terminal No.	Color of Wire	Signal Name
2	SB	DOOR SW (DR)

Terminal No.	Color of Wire	Signal Name
17J	SB	-

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



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



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

Connector No.	R50
Connector Name	FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	GRAY



6	5	4	3	2	1
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Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
8	BR	-
15	O	-

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

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

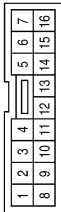
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# ILLUMINATION

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Connector No.	D5
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	O	ILL_CONT_OUT
9	BR	TAIL/ILL_RLY

**INL**

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# INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### INTERIOR LIGHTING SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000005439374

**CAUTION:**

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

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. <ul style="list-style-type: none"> <li>• Front room/map lamp LH and RH</li> <li>• Personal lamp rear LH and RH</li> <li>• Trunk room lamp</li> <li>• Step lamp LH and RH</li> <li>• Vanity mirror lamp LH and RH</li> </ul>	<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-17</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-62</a> .  Interior room lamp control circuit Refer to <a href="#">INL-19</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.)  Step lamps (driver side and passenger side) 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-21</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-23</a> .  Trunk room lamp circuit Refer to <a href="#">INL-23</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-42</a> .  Push-button ignition switch illumination circuit Refer to <a href="#">INL-25</a> .
Interior room lamp battery saver does not activate.	—	Check the interior room lamp battery saver setting. Refer to <a href="#">INL-13</a> .

# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000005804871

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.

#### General precautions for service operations

INFOID:000000005439377

- When removing or disassembling any part, be careful not to damage or deform it. Protect parts which may get in the way with cloth.
- When removing parts with a screw driver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- If a non-reuseable part is removed, replace it with a new one.
- After re-assembly has been completed, make sure each part functions correctly.
- Never work with wet hands.
- Turn the lighting switch OFF before disconnecting and connecting the connector.
- Do not use organic solvent (paint thinner or gasoline) to clean lamps or remove sealant residue.

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# PREPARATION

< PREPARATION >

## PREPARATION

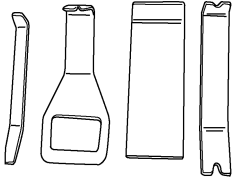
### PREPARATION

#### Special Service Tool

INFOID:000000005804872

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

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



AWJIA0483ZZ

# INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

## ON-VEHICLE REPAIR

### INTERIOR ROOM LAMP

#### Removal and Installation

INFOID:000000005439378

#### FRONT ROOM/MAP LAMP

##### Removal

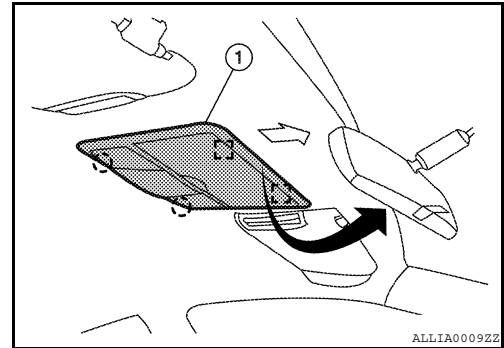
1. Release the metal clips and drop front edge of front room/map lamp (1) away from headlining. Slide front room/map lamp forward in vehicle to clear pawls at rear.

←: Vehicle front

□: Metal clip

○: Pawl

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



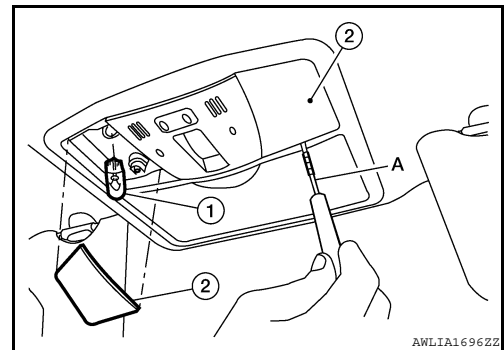
##### Installation

Installation is in the reverse order of removal.

##### Bulb Replacement

1. Remove the front room/map lamp lens (2), using a suitable tool (A).
2. Pull bulb (1) straight out to remove.

**Front room/map lamp bulb : 12V - 8W**



#### VANITY MIRROR LAMP

##### Removal

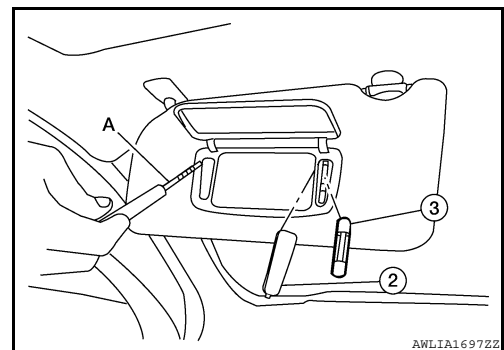
The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to [INT-26. "Exploded View"](#).

##### Installation

Installation is in the reverse order of removal.

##### Bulb Replacement

1. Remove the vanity mirror lamp lens (2), using a suitable tool (A).
2. Pull bulb (3) straight out to remove.



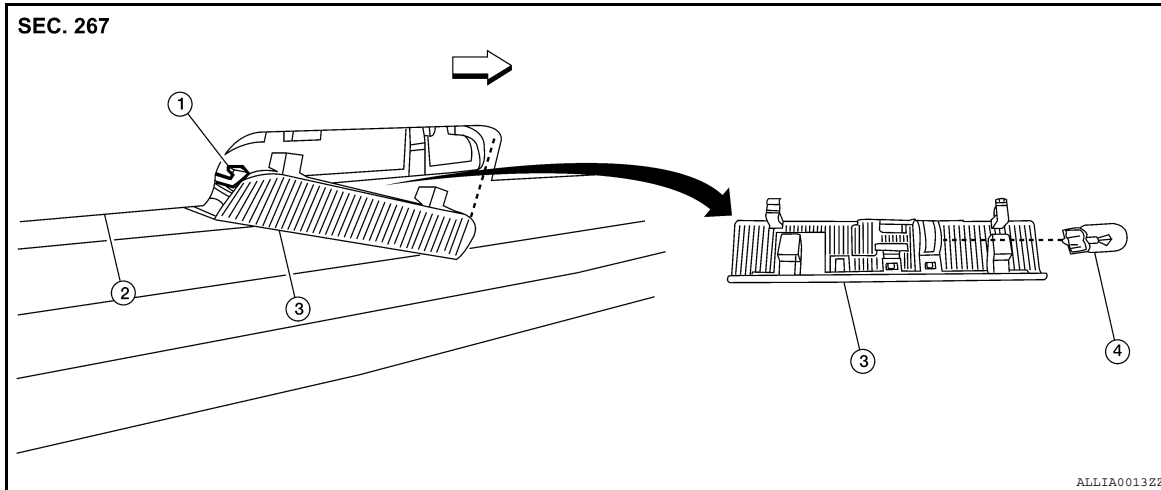
#### STEP LAMP

##### Removal

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# INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >



- |                        |                  |                          |
|------------------------|------------------|--------------------------|
| 1. Step lamp connector | 2. Door finisher | 3. Step lamp lens/socket |
| 4. Step lamp bulb      | ← Vehicle 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 lens and socket.

## Installation

Installation is in the reverse order of removal.

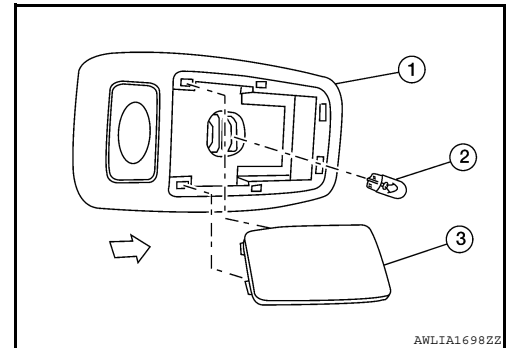
## Bulb Replacement

1. Remove the step lamp lens/socket.
2. Pull the bulb straight out to remove.

## PERSONAL LAMP

### Removal

1. Using a suitable tool, release the pawls and remove personal lamp lens (3).  
← Vehicle front
2. Release the retainer pawls and remove the personal lamp housing (1) from the headlining, then disconnect the harness connector.



### Installation

Installation is in the reverse order of removal.

### Bulb Replacement

1. Release the pawls and remove personal lamp lens (3) from the personal lamp housing (1), using a suitable tool.
2. Pull bulb (2) straight out to remove.

**Personal lamp bulb : 12V - 8W**



# ILLUMINATION

< ON-VEHICLE REPAIR >

## ILLUMINATION

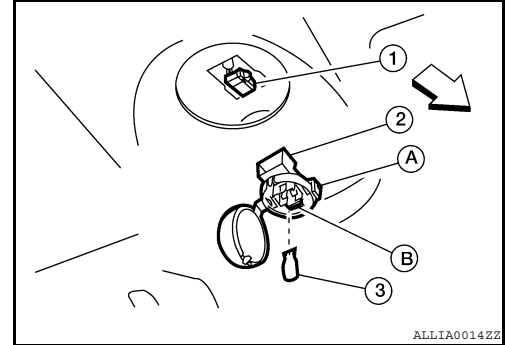
### Removal and Installation

INFOID:000000005439379

#### TRUNK ROOM LAMP

##### Removal

1. Release the tab (A), then swing open the lens.  
↳: Vehicle 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

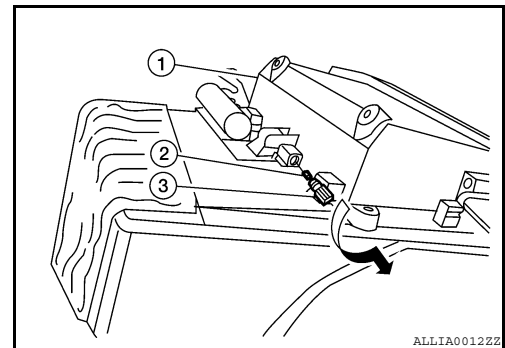
1. Release the tab (A), then swing open the lens.
2. Pull bulb (3) straight out to remove.

**Trunk room lamp bulb : 12V - 3.4W**

#### GLOVE BOX LAMP

##### Removal

1. Remove the lower instrument glove box assembly (1). Refer to [IP-10, "Exploded View"](#).
2. Rotate glove box lamp socket (3) counterclockwise to remove, then remove the glove box lamp bulb (2).



##### Installation

Installation is in the reverse order of removal.

##### Bulb Replacement

1. Remove glove box lamp socket.
2. Pull bulb straight out to remove.

## SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Bulb Specifications

INFOID:000000005439380

Item	Type	Wattage (W)	Bulb No.*
Front room/map lamp	Wedge	8	B5
Push-button ignition switch illumination	LED	-	-
Vanity mirror lamp	Cylinder	-	HTU-14V
Glove box lamp	Wedge	-	-
Step lamp	Wedge	-	194
Personal lamp	Wedge	8	B5
Trunk room lamp	Wedge	3.4	158

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