# SECTION INTERIOR LIGHTING SYSTEM

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# SERVICE DATA AND SPECIFICATIONS

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### SERVICE DATA AND SPECIFICATIONS

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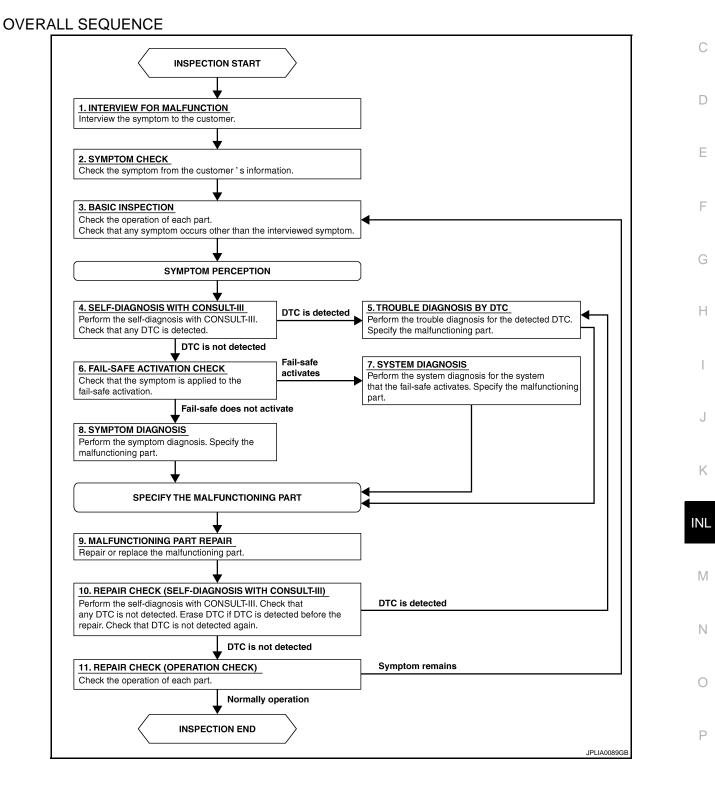
< BASIC INSPECTION >

# BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

### Work Flow

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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

### 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?

**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 11

**10.**REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT-III)

Perform the self-diagnosis with CONSULT-III. Verfied that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again. <u>Is any DTC detected?</u>

### INL-4

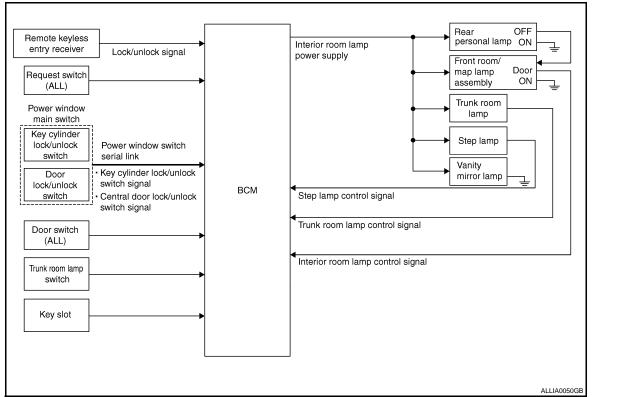
DIAGNOSIS AND REPAIR WORKFLOW	
< BASIC INSPECTION >	
YES >> GO TO 5 NO >> GO TO 11	A
11. REPAIR CHECK (OPERATION CHECK)	
Check the operation of each part.	В
Does it operate normally?	
YES >> INSPECTION END NO >> GO TO 3	
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### < FUNCTION DIAGNOSIS >

# FUNCTION DIAGNOSIS INTERIOR ROOM LAMP CONTROL SYSTEM

# System Diagram



# System Description

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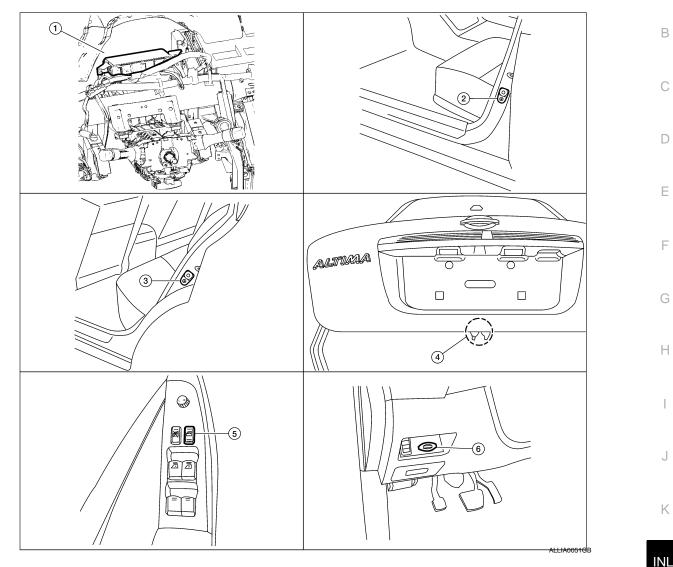
### OUTLINE

- 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.

### < FUNCTION DIAGNOSIS >

### **Component Parts Location**





- BCM M17, M18, M19, M20, M21 (view 2. 1. with instrument panel removed) Trunk lamp switch and trunk release
- Front door switch LH, B8 and RH, B18 3.
- Main power window and door lock/un- 6. 5. lock switch D7 and D8
- Rear door switch LH, B108 and RH, B116
  - Key slot M40

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# **Component Description**

### SWITCH OPERATION

solenoid B28

4.

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

Ρ 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  $\rightarrow$  closes and the Intelligent Key is not inserted in the key slot.
- Timer control is canceled under the following conditions.
- 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)].

### INL-7

### < FUNCTION DIAGNOSIS >

- 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

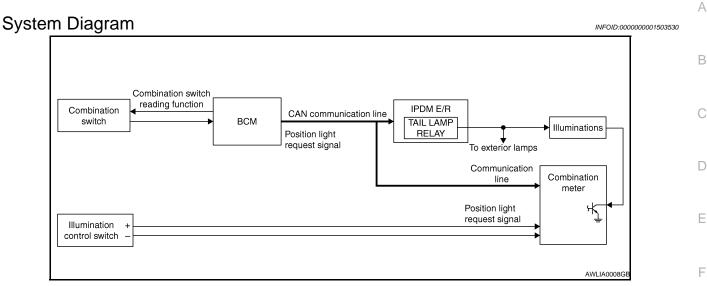
- a signal is received from an Intelligent Key or main power window and door lock/unlock switch, or when the front door LH lock assembly (key cylinder switch) is locked or unlocked
- a door is opened or closed
- the Intelligent Key is removed from or inserted into the key slot.

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 Description

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

### **Component Parts Location**

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### **ILLUMINATION CONTROL SYSTEM**

### < FUNCTION DIAGNOSIS >

- 1. IPDM E/R E17, E18
- 2. BCM M16, M17, M18, M19 (view with 3. Combination switch M28 instrument panel removed)
- 4. Combination meter (illumination control switch) M24

### Component Description

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### ILLUMINATION OPERATION BY LIGHTING SWITCH

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

### BATTERY SAVER CONTROL

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

# **DIAGNOSIS SYSTEM (BCM)**

< FUNCTION DIAGNOSIS >

# DIAGNOSIS SYSTEM (BCM)

# **CONSULT-III** Function

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

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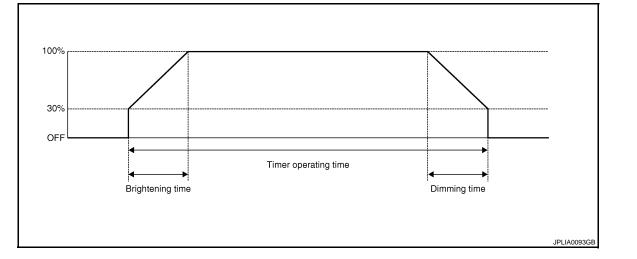
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BCM diagnostic test item	Diagnostic mode	Description
	WORK SUPPORT	Supports inspections and adjustments. Commands are transmitted to the BCM for setting the status suitable for required operation, input/output signals are received from the BCM and received data is displayed.
	DATA MONITOR	Displays BCM input/output data in real time.
Inspection by part	ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.
	SELF-DIAG RESULTS	Displays BCM self-diagnosis results.
	CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
	ECU PART NUMBER	BCM part number can be read.
	CONFIGURATION	Performs BCM configuration read/write functions.

### WORK SUPPORT



Service item	Setting item	Setting		
	MODE 2	7.5 sec.		
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)	
	MODE 4	30 sec.		
SET I/L D-UNLCK INTCON	ON*	With the i	nterior room lamp timer function	
SET I/E D-ONLOR INTCOM	OFF	Without th	e interior room lamp timer function	
	MODE 1	0.5 sec.		
	MODE 2*	1 sec.	Sets the interior room lamp gradual brightening time.	
ROOM LAMP ON TIME SET	MODE 3	2 sec.		
	MODE 4	3 sec.		
	MODE 5	0 sec.		
	MODE 1	0.5 sec.		
ROOM LAMP OFF TIME SET	MODE 2	1 sec.		
	MODE 3	2 sec.	Sets the interior room lamp gradual dimming time.	
	MODE 4*	3 sec.		
	MODE 5	0 sec.		

# **DIAGNOSIS SYSTEM (BCM)**

### < FUNCTION DIAGNOSIS >

Service item	Setting item	Setting
R LAMP TIMER LOGIC SET	ON* (MODE 1)	Interior room lamp timer activates with synchronizing all doors.
	OFF (MODE 2)	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
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
DOOR SW-BK [ON/OFF]	NOTE: The item is indicated, not monitored.
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		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.

# **INL-12**

### POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

**BCM** : Inspection Procedure

# COMPONENT DIAGNOSIS POWER SUPPLY AND GROUND CIRCUIT BCM

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POWER SUPPLY AND GROUND CIRCUIT INSPECTION FOR BCM For information about power and ground circuit inspection for the BCM, refer to <u>BCS-34</u>, "<u>Diagnosis Proce-</u> <u>dure</u>".

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# INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

### < COMPONENT DIAGNOSIS >

# INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

### Description

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

# **Component Function Check**

# 1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

### CONSULT-III

### 1. Turn ignition switch ON.

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

### OFF : Interior room lamp OFF

### ON : Interior room lamp ON

### Does the interior room lamp turn ON/OFF?

- YES >> Interior room lamp power supply circuit is normal.
- NO >> Refer to INL-14, "Diagnosis Procedure".

# Diagnosis Procedure

# 1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

### CONSULT-III

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

	Terminals			
(	(+)		Test item	Voltage
B	СМ		BATTERY	Vollage
Connector	Terminal	Ground	SAVER	
M17	4	Giouna	OFF	0 V
	4		ON	Battery voltage
		10		

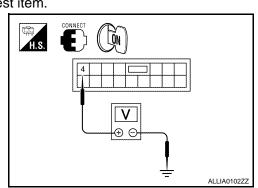
### Is the measurement value normal?

YES >> GO TO 2

NO >> Replace BCM. Refer to <u>BCS-78, "Removal and Installation"</u>.

2. CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

- 1. Turn ignition switch  $\overline{OFF}$ .
- 2. Disconnect the following connectors.
- BCM M17
- Front room/map lamp LH
- Front room/map lamp RH
- Personal lamps rear LH
- Personal lamps rear RH
- Vanity mirror lamp LH
- Vanity mirror lamp RH





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# INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

- Trunk room lamp
- Step lamp LH
- Step lamp RH

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

BC	Л	Each int	terior room lamp		Continuity
Connector	Terminal	Conne	ctor	Terminal	Continuity
		Font room/map lamp LH	R13 (without sunroof) R51 (with sunroof)	1	
		Front room/map lamp RH	R14 (without sunroof) R52 (with sunroof)	1	
		Personal lamp rear LH	R12	1	
M17	4	Personal lamp rear RH	R11	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	

### Does continuity exist?

YES >> GO TO 3

NO >> Repair the harnesses or connectors.

 $\mathbf{3.}$  CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

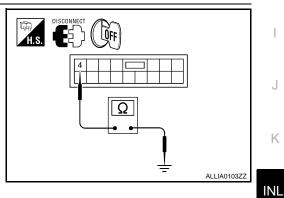
Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M17	4		No

Does continuity exist?

YES >> Repair the harnesses or connectors.

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



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### INTERIOR ROOM LAMP CONTROL CIRCUIT

### < COMPONENT DIAGNOSIS >

# INTERIOR ROOM LAMP CONTROL CIRCUIT

### Description

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**

### **CAUTION:**

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

- Interior room lamp power supply
- Front room/map lamp bulbs
- Personal lamp bulbs

### **1.**CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

### CONSULT-III

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

### ON : Interior room lamp gradual brightening

### OFF : Interior room lamp gradual dimming

Do the interior room lamps turn ON/OFF (gradual brightening/dimming)?

- YES >> Interior room lamp control circuit is normal.
- NO >> Refer to INL-16, "Diagnosis Procedure".

### **Diagnosis Procedure**

### **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.
- While operating the test item, check voltage between BCM harness connector and ground.

BC	СМ		Test item	Voltage
Connector	Terminal	Ground	INT LAMP	voltage
M17	19	Ground	ON	0V
11117	19		OFF	Battery voltage

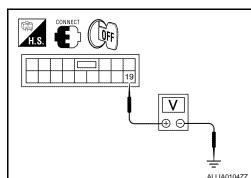
### Are voltage readings as specified?

YES >> Interior room lamp control circuit is operating normally. Fixed ON>> GO TO 3

Fixed OFF>> GO TO 2.

2.check interior room lamp control open circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M17, front room/map lamp LH and RH connectors, and personal lamp rear LH and RH connectors.
- 3. Check continuity between BCM harness connector, front room/map lamp harness connectors and personal lamp harness connectors.



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# INTERIOR ROOM LAMP CONTROL CIRCUIT

### < COMPONENT DIAGNOSIS >

B	СМ	Map la	mp/personal lamp			
Connec- tor	Terminal	Conne	ector	Terminal	Continuity	
		Front room/map lamp LH	R13 (without sunroof) R51 (with sunroof)	8		
M17	19	Front room/map lamp RH	R14 (without sunroof) R52 (with sunroof)	4	Yes	
		Personal lamp rear LH	R12	2	-	
		Personal lamp rear RH	R11	2	1	

Does continuity exist?

YES >> Replace the front room/map lamp or the personal lamp. Refer to <u>INL-50, "Removal and Installa-</u> tion".

NO >> Repair the harnesses or connectors.

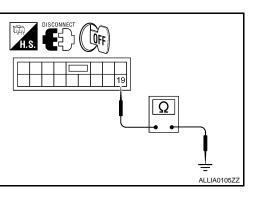
# ${\it 3.}$ CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M17, front room/map lamp connector LH and RH, and personal lamp rear LH and RH connector.
- 3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M17	19		No

### Does continuity exist?

- YES >> Repair the harnesses or connectors.
- NO >> Replace BCM. Refer to <u>BCS-78, "Removal and Installa-</u> tion"



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### < COMPONENT DIAGNOSIS >

# STEP LAMP CIRCUIT

# Description

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

Component Function Check

# CAUTION:

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

- Interior room lamp power supply
- Step lamp bulb

**1.**CHECK STEP LAMP OPRATION

### CONSULT-III

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

ON : Step lamp ON

### OFF : Step lamp OFF

Does the step lamp turn ON/OFF?

YES >> Step lamp circuit is operating.

NO >> Refer to <u>INL-18, "Diagnosis Procedure"</u>.

# Diagnosis Procedure

# **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 harness connector and ground.

BC	CM		Test item	
Connector	Terminal	Ground	STEP LAMP TEST	Volage
M17	7		ON	0V
IVI I 7	I	l	OFF	Battery voltage

Are the voltage readings as specified?

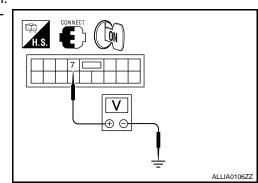
YES >> Step lamp control circuit is operating normally.

Fixed ON>> GO TO 3 Fixed OFF>> GO TO 2.

# 2. CHECK STEP LAMP OPEN CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect BCM connector M17 and step lamp LH and RH connector.



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# **STEP LAMP CIRCUIT**

### < COMPONENT DIAGNOSIS >

3. Check continuity between BCM harness connector (A) and step lamp (B) harness connector.

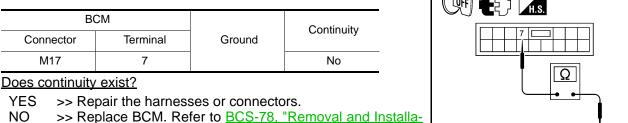
	A B		В		
Connec- tor	Terminal	Connector		Terminal	Continuity
M17	7	LH	D11	2	Yes
10117	/	RH	D109	2	162

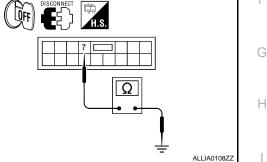
### Does continuity exist?

- YES >> Replace step lamp. Refer to INL-50, "Removal and Installation".
- NO >> Repair harnesses or connectors.
- **3.**CHECK STEP LAMP SHORT CIRCUIT
- 1. Turn ignition switch OFF.

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- 2. Disconnect BCM connector and step lamp connector.
- Check continuity between BCM harness connector and ground. 3.





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< COMPONENT DIAGNOSIS >

# TRUNK ROOM LAMP CIRCUIT

# Description

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

Component Function Check

### CAUTION:

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

Interior room lamp power supply

### • Trunk room lamp bulb

1.CHECK TRUNK ROOM LAMP OPRATION

### CONSULT-III

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

### ON : Trunk room lamp ON

### OFF : Trunk room lamp OFF

### Does the trunk room lamp turn ON/OFF?

YES >> Trunk room lamp circuit is normal.

NO >> Refer to INL-18, "Diagnosis Procedure".

### **Diagnosis Procedure**

### **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 harness connector and ground.

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

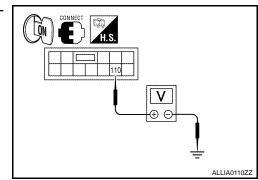
Are the voltage readings as specified?

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

Fixed OFF>> GO TO 2.

# 2. CHECK TRUNK ROOM LAMP OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20 and trunk room lamp connector.



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# TRUNK ROOM LAMP CIRCUIT

### < COMPONENT DIAGNOSIS >

3. Check continuity between BCM harness connector (A) and trunk room lamp harness connector (B).

	А		В		
Connector	Terminal	Connector	Terminal	Continuity	
M20	110	B36	2	Yes	

### Does continuity exist?

- YES >> Replace trunk room lamp. Refer to <u>INL-50. "Removal</u> and Installation".
- NO >> Repair harnesses or connectors.

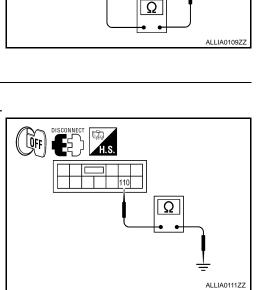
# **3.**CHECK TRUNK ROOM LAMP SHORT CIRCUIT

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

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M20	110	-	No

Does continuity exist?

- YES >> Repair harnesses or connectors.
- NO >> Replace BCM. Refer to <u>BCS-78. "Removal and Installa-</u> tion"



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# **PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT**

### < COMPONENT DIAGNOSIS >

# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

### Description

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

### **Component Function Check**

1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

### CONSULT-III

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

### ON : Push-button ignition switch illumination ON

### OFF : Push-button ignition switch illumination OFF

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

- YES >> Push-button ignition switch illumination circuit is normal.
- NO >> Refer to INL-22, "Diagnosis Procedure".

### **Diagnosis Procedure**

INFOID:000000001503550

# 1. CHECK ILLUMINATION CONTROL SWITCHING OPERATION

- 1. Turn the ignition switch ON.
- 2. With operating the lighting switch, check that the push-button ignition switch illumination turns ON/OFF

Condition	Push-button ignition switch illumination			
<ul><li>Ignition switch ON</li><li>Lighting switch 1ST</li></ul>	ON			
Ignition switch OFF     Lighting switch OFF     OFF     Driver door LOCK				
Does the push-button ignition switch illumination turn ON/OFF?				
YES >> GO TO 2				

NO >> GO TO 3

# 2.check push-button ignition switch illumination ground circuit

1. Turn the ignition switch OFF.

- 2. Disconnect BCM connector M17 and the push-button ignition switch connector M38.
- 3. Check continuity between BCM harness connector (A) and the push-button ignition switch harness connector (B).

A		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M17	14	M38	2	Yes

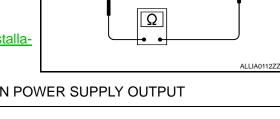


- YES >> Replace BCM. Refer to <u>BCS-78, "Removal and Installa-</u> tion".
- NO  $\rightarrow$  Repair the harness or the connector.

### ${ m 3.}$ CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

### CONSULT-III

- 1. Turn the ignition switch ON.
- 2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.



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# PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

### < COMPONENT DIAGNOSIS >

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

Terminals		Test item		
(·	+)	(-)	leschem	Voltage
B	CM		ENGINESW	
Connector	Terminal	Ground	ILLUMI	
M18	41	Ground	ON	5 V
IVI 18	41		OFF	0 V

Is the measurement value normal?

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

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

	В	А		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M18	41	M38	3	Yes

Does continuity exist?

- YES >> Replace push-button ignition switch.
- NO >> Repair the harness or the connector.

# 5.check push-button ignition switch illumination power supply short circuit

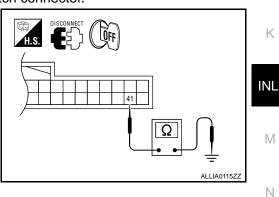
- 1. Turn the ignition switch OFF.
- Disconnect BCM connector M18 and the push-button ignition switch connector.
- 3. Check continuity between BCM harness connector and the push-button ignition switch harness connector.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M18	41		No

Does continuity exist?

YES >> Repair the harness or the connector.

NO >> Replace BCM. Refer to BCS-78, "Removal and Installation".



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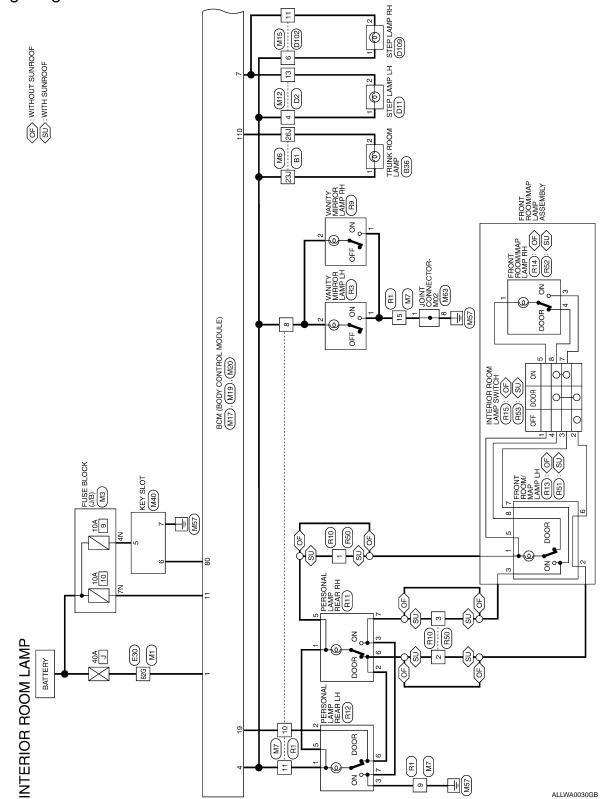
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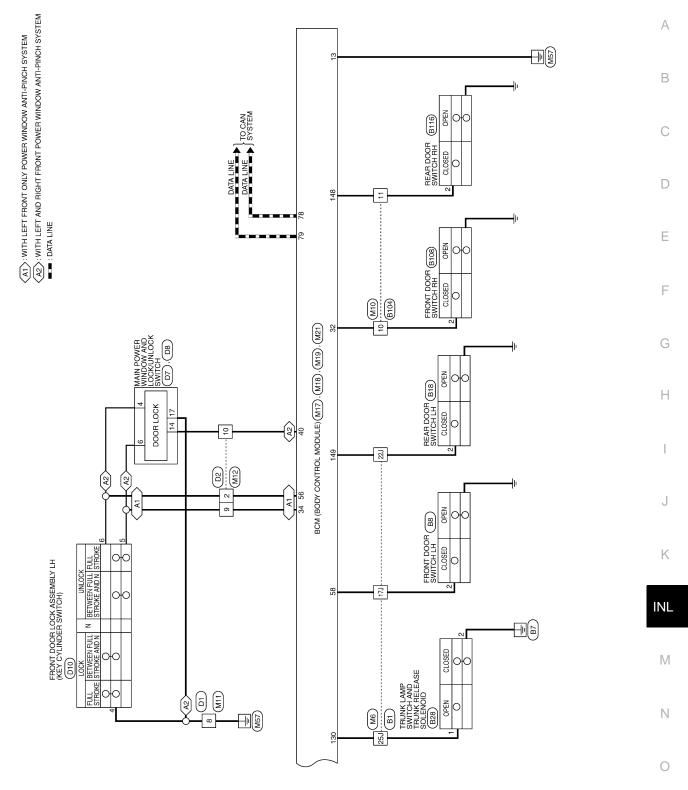
# INTERIOR ROOM LAMP CONTROL SYSTEM

# Wiring Diagram

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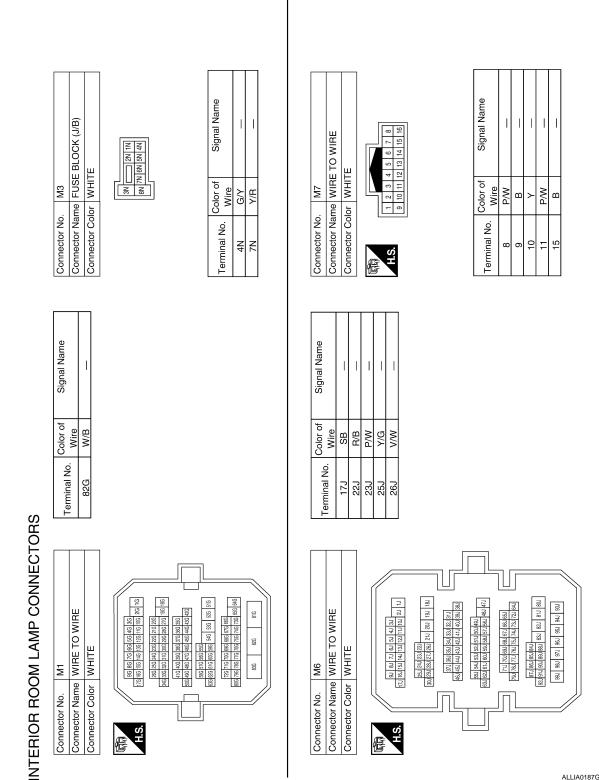


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Connector No.     M11       Connector Name     WIRE TO WIRE       Connector Color     WHITE       Mite     12       Mite     12       Mite       Mite	Connector No.     M12       Connector Name     WIRE TO WIRE       Connector Color     WHITE
Terminal No. Color of Signal Name Wire B —	Terminal No.Color of WireSignal Name2L/B4P/M9L/R10Y/G13R/W
Connector No. M16 Connector Name BCM (BODY CONTROL Connector Color BLACK	Connector No.         M17           Connector Name         BCM (BODY CONTROL           MODULE)         MODULE)           Connector Color         WHITE           MI112131415161716191
Terminal No.     Color of Wire     Signal Name       1     W/B     BAT_POWER_F/L	Terminal No.Color of WireSignal Name4WireSignal Name7WireSAVER7R/WSAVER11Y/RBAT_BOM_DUTPUT13BGND119YROOM_LAMP_OUTPUT

Connector No.	M10
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color BROWN	BROWN
	4 3 2 1

Signal Name Ц Color of Wire R/B R/W Terminal No. 위 11

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

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	Signal Name		I
~	Color of	P/W	R/W
	Terminal No.	9	11

Signal Name	I	-	
Color of Wire	M/d	R/W	
erminal No.	9	11	



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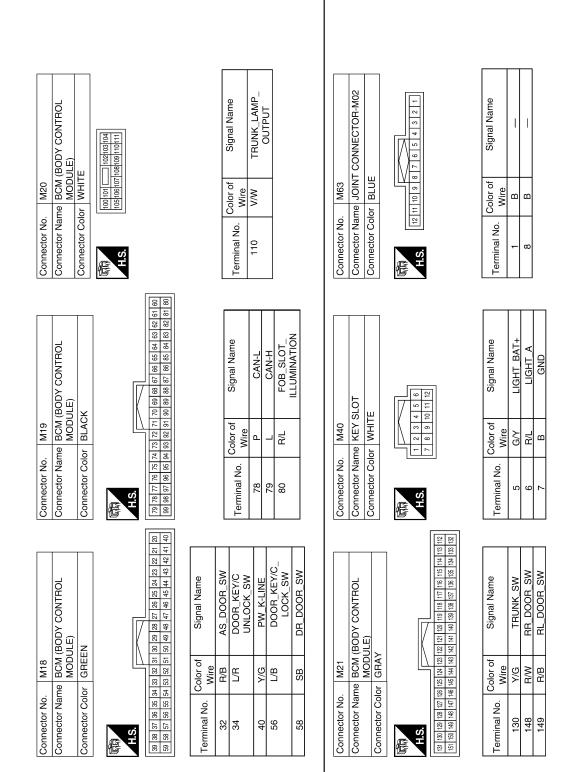
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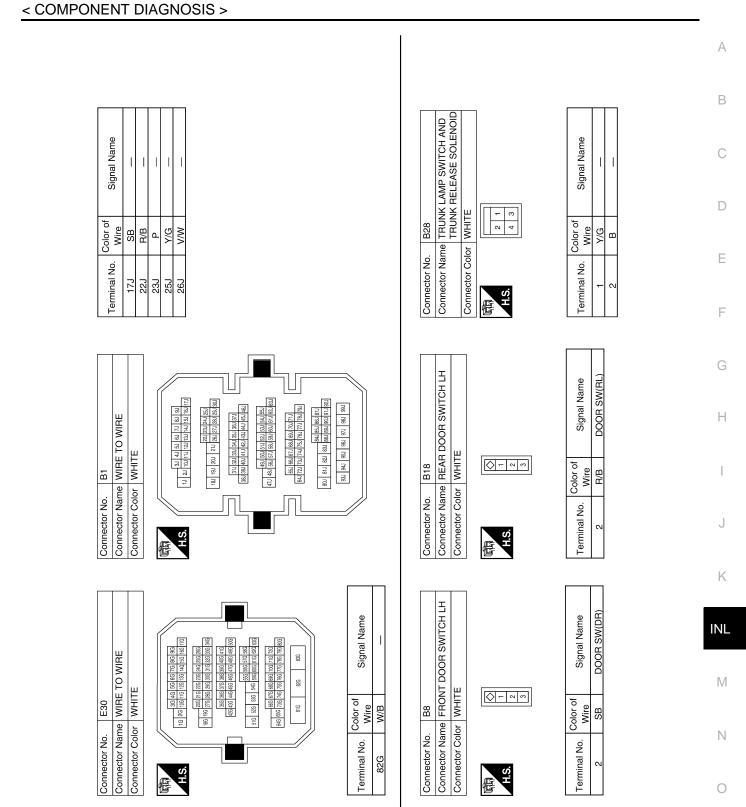
# **INTERIOR ROOM LAMP CONTROL SYSTEM**

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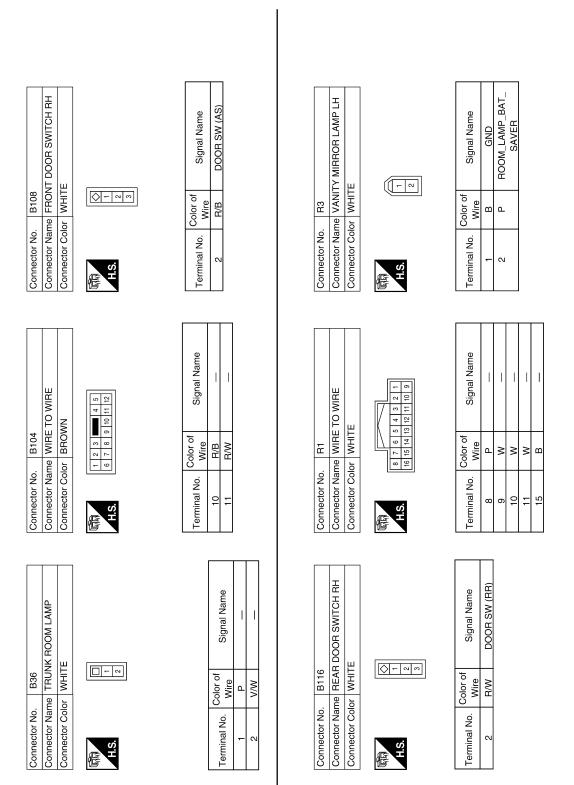
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**INTERIOR ROOM LAMP CONTROL SYSTEM** 

Connector No. R11 Connector Name PERSONAL LAMP REAR RH Connector Color — — — — — — — — — — — — — — — — — — —	Signal Name	Connector No. R14 Connector Name FRONT ROOM/MAP LAMP RH Connector Color – Connector Color –	Signal Name
or are PERS(	Color of Wire W W W W W W W W	ON THE FRON	Color of Wire Kire R
Connector No. Connector Name Connector Color H.S.	Terminal No. 1 2 3 5 6	Connector No. Connector Name Connector Color	Terminal No.
10 WIRE	Signal Name	Connector No. R13 Connector Name FRONT ROOM/MAP LAMP LH Connector Color –	Signal Name
R10 be WIRE TO GRAY	Wire Wire		n ≤ ≤ ≤ ≤ ≤ Color R ≤ ≤ ≤ ≤ ≤ S
Connector No. R10 Connector Name WIRE TO WIRE Connector Color GRAY	Terminal No. 1 3 3	Connector No. Connector Name Connector Color	Terminal No. 1 1 3 3 6 6 6 7 7 7
Y MIRROR LAMP RH	Signal Name GND ROOM LAMP_BAT_ SAVER	Connector No. R12 Connector Name PERSONAL LAMP REAR LH Connector Color – Connector Color –	Signal Name
R9 NHITE	Color of Wire B		Color of Wire Wire W
Connector No. R9 Connector Name VANITY MIRRO Connector Color WHITE	Terminal No. 1 2	Connector No. Connector Name Connector Color	Terminal No. 1 2 3 3 6 6 6

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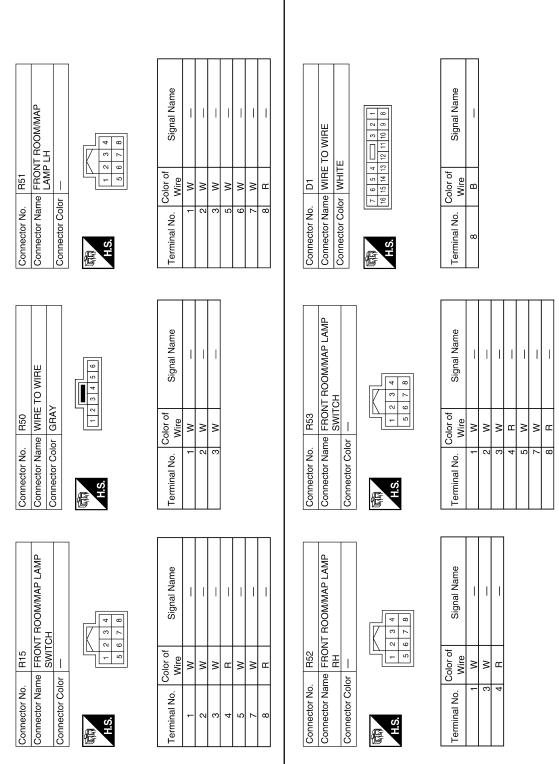
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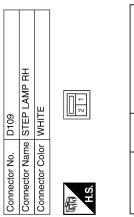


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### А В Connector Name MAIN POWER WINDOW AND LOCK/UNLOCK SWITCH WHITE Signal Name Signal Name GND С Connector Name WIRE TO WIRE Connector Color WHITE 17 18 19 7 8 6 5 4 3 2 12 11 10 9 8 D Connector No. D102 Color of Color of N/A W/H Wire D8 Wire m Connector Color Connector No. Е Terminal No. Terminal No. 9 1 1 0 4 H.S. H.S. 佢 Æ F Connector Name MAIN POWER WINDOW AND LOCK/UNLOCK SWITCH G Signal Name Signal Name UNLOCK LOCK COM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Connector Name STEP LAMP LH Н -Connector Color WHITE Connector Color WHITE D11 Color of Color of R/W Wire Wire ЦЯ ММ 5 Щ Y/G Connector No. Connector No. Terminal No. Terminal No. J 4 N ശ H.S. H.S. f f Κ DOOR\_KEY/C\_ LOCK\_SW DOOR\_KEY/C\_ Signal Name Signal Name INL Connector Name FRONT DOOR LOCK ASSEMBLY LH GND T I Τ I 3 4 5 6 Connector Name WIRE TO WIRE 6 -8 7 6 5 4 3 2 16 15 14 13 12 11 10 Μ Connector Color WHITE GRAY D10 Color of Color of Р/W Wire Ы Wire Y/G N Ц L/B ЦЯ МN Ц ш -Connector Color Connector No. Ν Connector No. Terminal No. Terminal No. ი 10 13 ß 9 4 4 N H.S. H.S.H. 佢 悟 0

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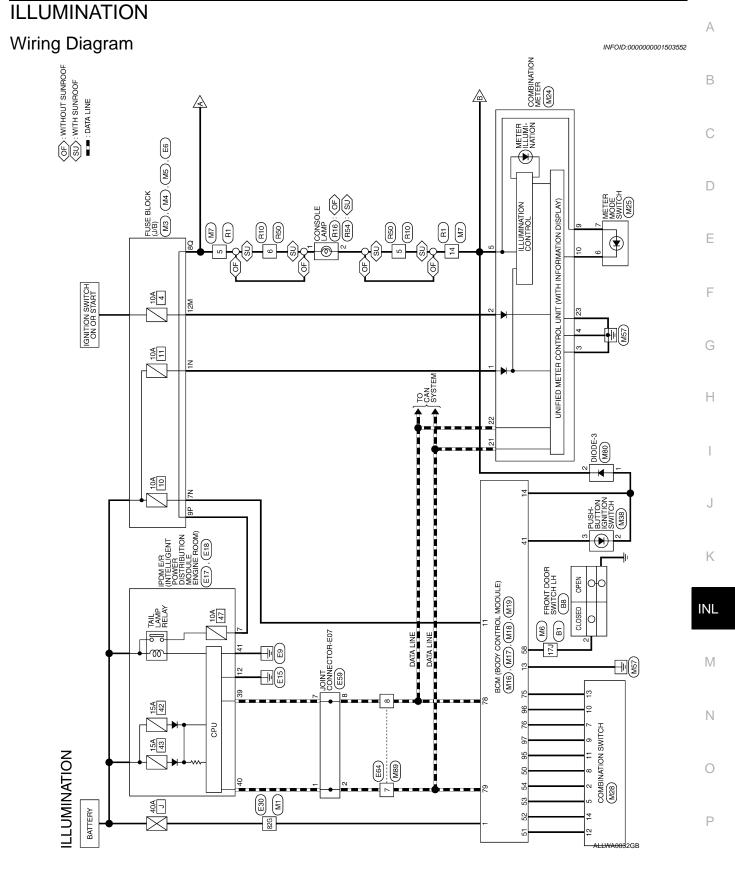
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Signal Name	I	
Color of Wire	P/W	B/W
Terminal No.	Ļ	د

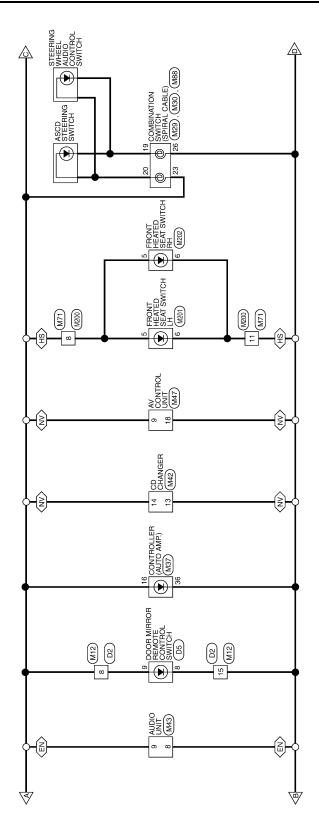
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# **ILLUMINATION**

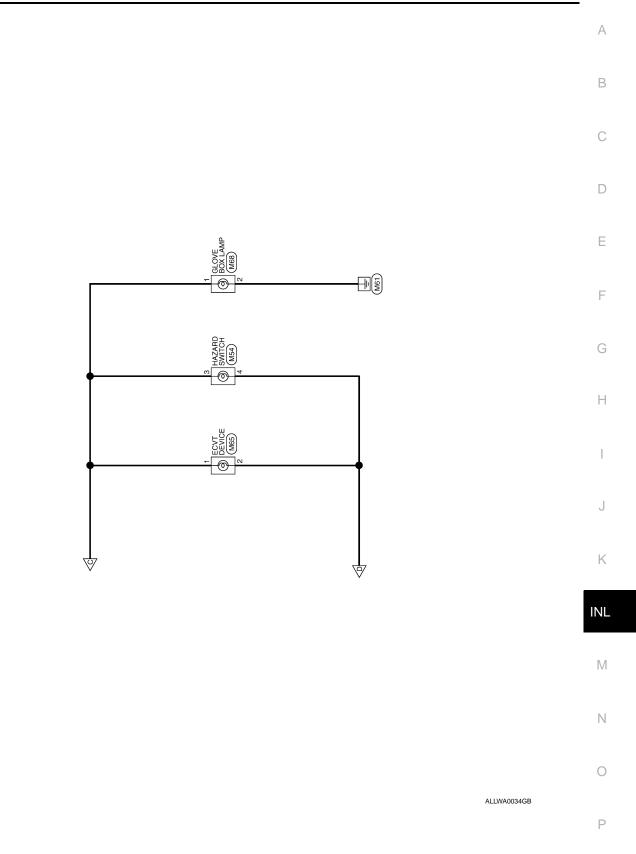
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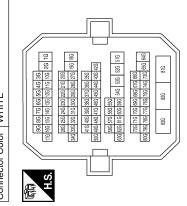
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#### < COMPONENT DIAGNOSIS >



# ILLUMINATION CONNECTORS

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





Signal Name	I	I
Color of Wire	M/L	Y/R
Terminal No.	Å	ΝŹ

Connector No. M5	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	际型 3M 4M 3M 2M 1M 12M11W 10M99M 9M 77M 6M
Connector No. M4	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	(項) H.S.

Signal Name		
Color of Wire	٩	
Terminal No.	12M	

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

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#### **ILLUMINATION**

#### < COMPONENT DIAGNOSIS >

Connector Name FUSE BLOCK (J/B)

ШЗ

Connector No.

Signal Name

Terminal No. Color of Wire

W/B

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Connector Color WHITE

3N \_\_\_\_\_ 2N 1N 8N 7N 6N 5N 4N

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< COMPONENT DIAGNOSIS >

#### А В LOW\_SIDE\_PUSH\_LE D\_OUTPUT BAT\_BCM\_FUSE Signal Name Connector Name BCM (BODY CONTROL MODULE) С GND1 7 8 15 16 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 Connector Name WIRE TO WIRE 15 4 13 D Connector Color WHITE 12 Connector Color WHITE 1 2 3 9 10 11 Color of M17 Wire Μ7 R∕L Υ/R RУ в Connector No. Ε Connector No. Terminal No. ± 10 <u>9</u> 4 Ξ H.S. H.S. E E F G BAT POWER F/L Signal Name Signal Name Connector Name BCM (BODY CONTROL MODULE) Н BLACK M16 Color of Color of Wire W/B Wire SB Connector Color Connector No. Terminal No. Terminal No. J 17J H.S. E Κ ILL CONT OUT TAIL/ILL\_RLY Signal Name INL 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 8.1 8.1 7.1 6.1 5.1 4.1 3.1 17.1 16.1 15.1 13.1 12.1 11.1 10.1 2.1 1.1 25J 24J 23J 22J 30J 25J 28J 27J 26J 21J 20J 19J 18J 55J 54J 53J 52J 51J 50J 49J 63J 62J 61J 60J 59J 58J 57J 56J 48J 47J 87J 86J 85J 84J 92J 91J 90J 85J 88J 83J 82J 81J 80J 37.1 36.1 35.1 34.1 33.1 32.1 31.1 46.1 45.1 44.1 43.1 42.1 41.1 40.1 39.1 38.1 71.1 70.1 69.1 68.1 67.1 66.1 65.1 75.1 78.1 77.1 76.1 75.1 74.1 73.1 72.1 64.1 99J 98J 97J 96J 95J 94J 93J Connector Name WIRE TO WIRE Connector Color WHITE Connector Name WIRE TO WIRE Μ Connector Color WHITE M12 Color of M6 R/Y Wire ЪЧ Connector No. Connector No. Ν Terminal No. 15 ω H.S. H.S. E E 0

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	16 17 18 19 20 36 37 38 39 40												F											
NATION METER	9         10         11         12         13         14         15         16         17         1           29         30         31         32         33         34         35         36         37         37	Signal Name	BATT	IGN	GND	GND	ILL OUTPUT	SW ILL PWR	GND(SATTLITE SW)	CAN-H	CAN-L	GND		Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2
or WHIT	6 7 8 26 27 28	Color of Wire	W/L	0	В	В	R/Y	GR/W	O/L	_	Ч	В		Color of Wire	G∕	LG/R	R/G	LG/B	R/B	P/B	МЛ	L/W	RУ	G/B
Connector No. M24 Connector Name COMBI Connector Color WHITE	1 2 3 4 5 21 22 23 24 25	Terminal No.	-	2	в	4	5	6	10	21	22	23		Terminal No.	2	5	7	8	6	10	11	12	13	14
Connector No. M19 Connector Name BCM (BODY CONTROL Connector Color BLACK	20         73         77         76         73         72         71         70         86         87         86         84         85         86         81         80           40         99         99         97         96         94         93         92         91         90         88         87         86         85         84         82         81         80	Terminal No. Color of Signal Name Wire	75 R/Y OUTPUT_5		78 P CAN-L	79 L CAN-H	95 R/W OUTPUT_1	96 P/B OUTPUT_4	97 R/B OUTPUT_2					CONTRECTOR NO. MIZO Connector Name COMBINATION SWITCH	Connector Color WHITE				H.S. 1 2 5 6	7 8 9 10 11 12 13 14				
CONTRO	31         30         29         28         27         26         25         24         23         22         21         20           51         50         49         48         47         46         45         44         43         42         41         40	Signal Name	PUSH_LED	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4	DR_DOOR_SW					ER MODE SWITCH		L		7	3 4 5	8 9 10			Signal Name	
GB M1	32	Color of Wire	Ν	LG/B	۲W	G/B	LG/R	G∖Y	SB					me METI	Ior WHITF	-		ų	2	6 7			Color of	Wire
Connector No. M18 Connector Name BCM (BODY MODULE) Connector Color GREEN	39         38         37         36         35         34         33           59         58         57         56         55         54         53	Terminal No.	41	50	51	52	53	54	58				A setection Alo	Connector Name METER MODE	Connector Color		4	E	H.S.				Terminal No.	

GND(SATTLITE SW) SW ILL PWR

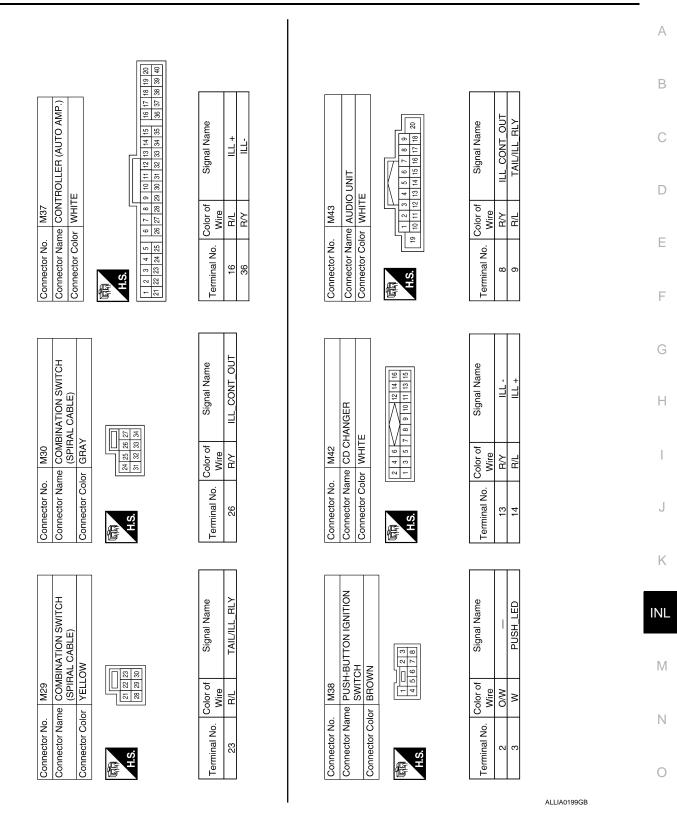
O/L GR/W

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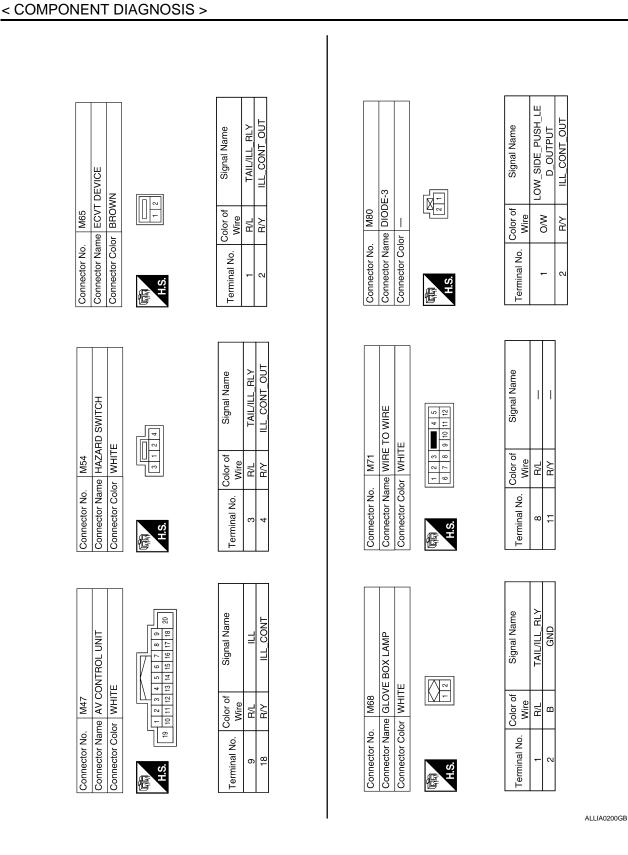
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## ILLUMINATION



#### < COMPONENT DIAGNOSIS >

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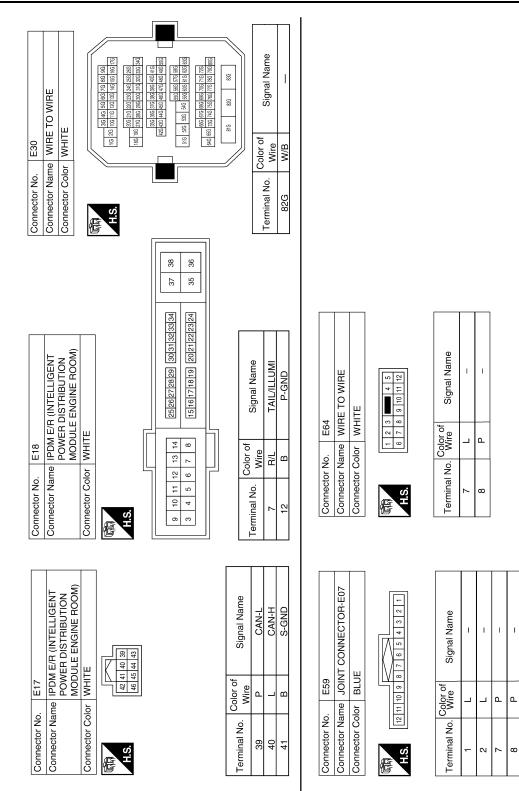
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NIRE     NIRE       Signal Name     Image: Signal Name       Signal Name     Image: Signal Name	С
M200         M200           Image: Second	D
ector Nano.	E
Conne Conne Conne Conne Conne	F
WIRE 	G
MB9 WIRE TO WIRE WHITE WHITE WHITE WHITE WHITE Cold a 201 Cold a 2	Н
	I
Connector No. Connector Name Connector Name Connector Color 7 7 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	J
	K
TION SWITCH TION SWITCH Signal Name ILL ILL ILL ILL ILL ILL ILL ILL ILL IL	INL
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Donnector No.     M88       Donnector Name     COMBIN.       Donnector Name     COMBIN.       Donnector Name     Connector Color       19     P       10     P       10     P       10     P       10     P       10     P       10     P       11     P       12     P       13     P       14     P       15     P       16     P	Ν
Connector No. Connector Name Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. Connector Color	0
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#### < COMPONENT DIAGNOSIS >

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#### < COMPONENT DIAGNOSIS >

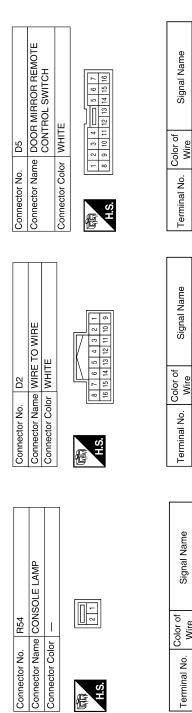


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		A
Signal Name		B
R1           WIRE TO W           Mire           0 lor of           13 12 11 13 12 11 13		D
Connector No. Connector Name Connector Color Terminal No. CC 14	Connector No. R50 Connector Name WIRE Connector Color GRAY H.S. Color of terminal No. Color of 5 L	E
DB) DB) DB)		G
Connector No.     B8       Connector Name     FRONT DOOR SWITCH LH       Connector Color     WHITE       Connactor Color     WHITE       Terminal No.     Color of       2     Signal Name       2     Signal Name	VSOLE LAMP	Η
SB SB SB SB SB SB SB SB SB SB SB SB SB S	Slor of Mire CONS	I
Connector No. Connector Name Connector Color H.S. Terminal No. C	Connector No.     R16       Connector Name     CONSOLE LAMP       Connector Color	J
		K
B1           WIRE TO WIRE           WHITE           WH		NL
3.         81           ame         WIRE           ame         WIRE           ame         WIRE           ame         WIRE           ame         ame           ame         Wire           ame         ame           ame         wire           ame         wire	Color of Landon GRAY	N
Connector No.         B1           Connector Name         WIRE TO WIRE           Connector Name         WIRE TO WIRE           Connector Color         WHITE           III         Jul 2J           IIII         Jul 2J           Bilinghis         Bilinghis           Wile         Bilinghis           Bilinghis         Bilinghis           Biling         Bilinghis	minal No.	0
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< COMPONENT DIAGNOSIS >

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< COMPONENT DIAGNOSIS >

Signal Name	TAIL/ILL_RLY	ILL_CONT_OUT	
Color of Wire	L	Υ	
Terminal No.	F	2	

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#### **ILLUMINATION**

ILL CONT OUT Signal Name

> Wire RY

Terminal No. ω თ

TAIL/ILL\_RLY

ILL\_CONT\_OUT TAIL/ILL\_RLY Signal Name

R/L R∕

Terminal No. œ 15

## BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >		
ECU DIAGNOSIS		А
BCM (BODY CONTROL MODULE)		Λ
Description	INFOID:000000001503553	В
REFERENCE VALUES FOR BCM For BCM reference values, refer to <u>BCS-39, "Reference Value"</u> .		С
TERMINAL LAYOUT FOR BCM For the terminal layout for the BCM, refer to <u>BCS-43, "Terminal Layout"</u> .		D
PHYSICAL VALUES FOR BCM For physical values for the BCM, refer to <u>BCS-44, "Physical Values"</u> .		E
WIRING DIAGRAM - BCM For the BCM wiring diagram, refer to <u>BCS-62, "Wiring Diagram"</u> .		F
FAIL SAFE - BCM For BCM fail safe information, refer to <u>BCS-70, "Fail Safe"</u> .		G
DTC INSPECTION PRIORITY CHART - BCM For the BCM DTC inspection priority chart, refer to <u>BCS-72, "DTC Inspection Priority Chart"</u> .		Η
DTC INDEX - BCM For the BCM DTC index, refer to <u>BCS-74, "DTC_Index"</u> .		
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#### < SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS INTERIOR LIGHTING SYSTEM SYMPTOMS

#### Symptom Table

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#### **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
<ul> <li>All the following lamps do not turn ON.</li> <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> <li>Harness between BCM and each interior room lamp</li> <li>BCM</li> </ul>	Interior room lamp power supply cir- cuit Refer to <u>INL-14</u> .
<ul> <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> <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 <u>DLK-52</u> . Interior room lamp control circuit Refer to <u>INL-16</u> .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)		Check the interior room lamp setting. Refer to <u>BCS-17</u> .
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> <li>Harness between BCM and each step lamp</li> <li>BCM</li> </ul>	Step lamp circuit Refer to <u>INL-18</u> .
<ul> <li>Trunk room lamp does not turn ON. (The bulb is normal.)</li> <li>Trunk room lamp does not turn OFF.</li> </ul>	<ul> <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 <u>INL-20</u> . Trunk room lamp circuit Refer to <u>INL-20</u> .
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to <u>BCS-24</u> .

< PRECAUTION >

## PRECAUTION PRECAUTIONS

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSION-ER"

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

#### General precautions for service operations

• When removing or disassembling any part, be careful not to damage or deform it. Protect parts which may get in the way with cloth.

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- 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 an 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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#### < ON-VEHICLE REPAIR >

## ON-VEHICLE REPAIR INTERIOR ROOM LAMP

Removal and Installation

FRONT ROOM/MAP LAMP

#### Removal

- 1. Disconnect the negative battery cable.
- 2. 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.
- 3. Disconnect the connectors, then remove front room/map lamp.

Installation

Installation is in the reverse order of removal.

**Bulb Replacement** 

- 1. Disconnect the negative battery cable.
- Using a suitable tool (3), remove front room/map lamp lens (2) RH/LH.
- 3. Pull bulb (1) straight out to remove.

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



#### Removal

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to INT-18, "Exploded View".

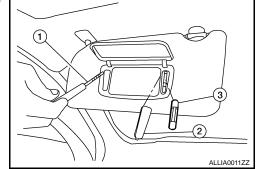
Installation

Installation is in the reverse order of removal.

Bulb Replacement

- 1. Disconnect the negative battery cable.
- 2. Using a suitable tool (1), remove the vanity mirror lamp lens (2) RH/LH.
- 3. Pull bulb (3) straight out to remove.

Vanity mirror lamp bulb : 12V - 2W



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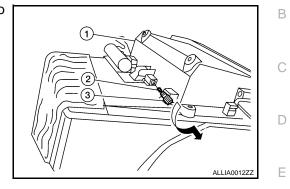
#### INTERIOR ROOM LAMP

#### < ON-VEHICLE REPAIR >

#### GLOVE BOX LAMP

#### Removal

- 1. Disconnect the negative battery cable.
- 2. Remove the lower instrument glove box assembly (1). Refer to IP-10, "Exploded View".
- Rotate glove box lamp socket (3) counterclockwise to remove. 3.



#### Installation

Installation is in the reverse order of removal.

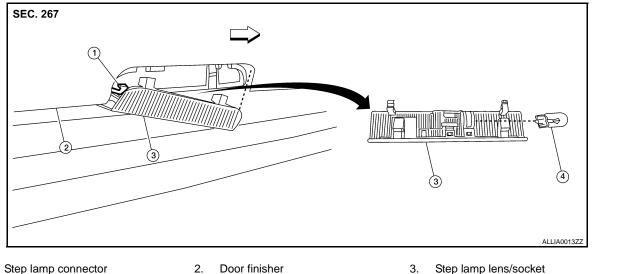
#### **Bulb Replacement**

- 1. Disconnect the negative battery cable.
- 2. Remove glove box lamp socket (3).
- Pull bulb (2) straight out to remove. 3.

**Glove box lamp bulb** 

#### STEP LAMP

#### Removal



- 4. Step lamp bulb
- Door finisher 2. Vehicle front

: 12V - 3.4W

- Step lamp lens/socket

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- Disconnect the negative battery cable. 1.
- Insert a suitable tool between door finisher (2) and step lamp lens/socket (1) to release the pawls. 2.
- 3. Disconnect the step lamp connector, then remove step lamp.

#### Installation

1.

Installation is in the reverse order of removal.

#### **Bulb Replacement**

- 1. Disconnect the negative battery cable.
- 2. Remove the step lamp lens/socket.

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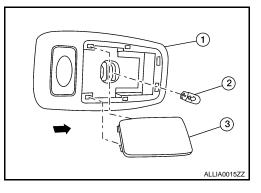
#### 3. Pull the bulb straight out to remove.

Step lamp bulb : 12V - 5W

#### PERSONAL LAMP

#### Removal

The personal lamp (RH/LH) (1) is replaced as part of the headlining assembly. Refer to <u>INT-18, "Removal and Installation"</u>.



Installation

Installation is in the reverse order of removal.

**Bulb Replacement** 

- 1. Disconnect the negative battery cable.
- 2. Using a suitable tool, release the pawls and remove personal lamp lens (3)
- 3. Pull bulb (2) straight out to remove.



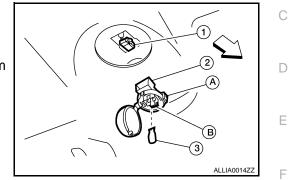
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## Removal and Installation

#### TRUNK ROOM LAMP

#### Removal

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



Installation

Installation is in the reverse order of removal.

#### **Bulb Replacement**

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

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

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#### SERVICE DATA AND SPECIFICATIONS (SDS)

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## SERVICE DATA AND SPECIFICATIONS (SDS) SERVICE DATA AND SPECIFICATIONS (SDS)

#### **Bulb Specifications**

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Item	Туре	Wattage (W)	Bulb No.*
Front room/map lamp	Wedge	8	B5Y
Push-button ignition switch illumination	LED	-	-
Vanity mirror lamp	Cylinder	2	-
Glove box lamp	Wedge	3.4	658
Step lamp	Wedge	5	-
Personal lamp	Wedge	8	B5Y
Trunk room lamp	Wedge	3.4	158

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