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# **BASIC INSPECTION**

#### DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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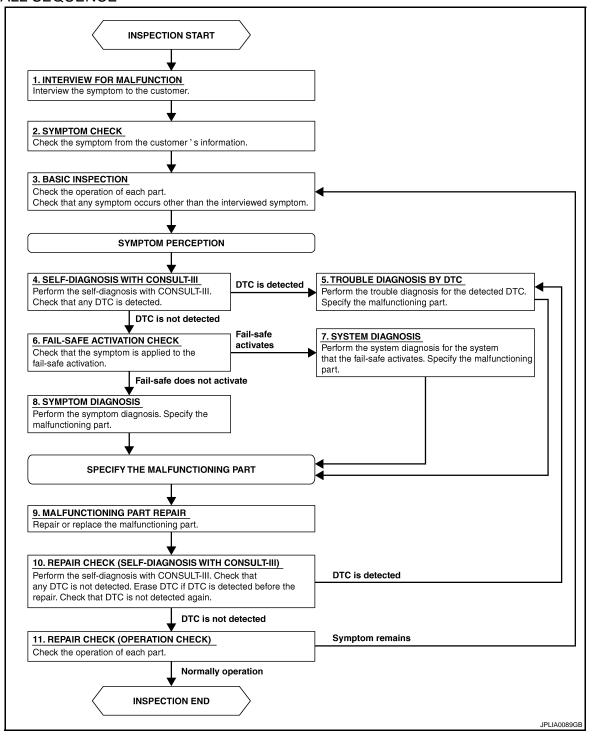
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#### **OVERALL SEQUENCE**



#### **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?

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 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.

#### Is any DTC detected?

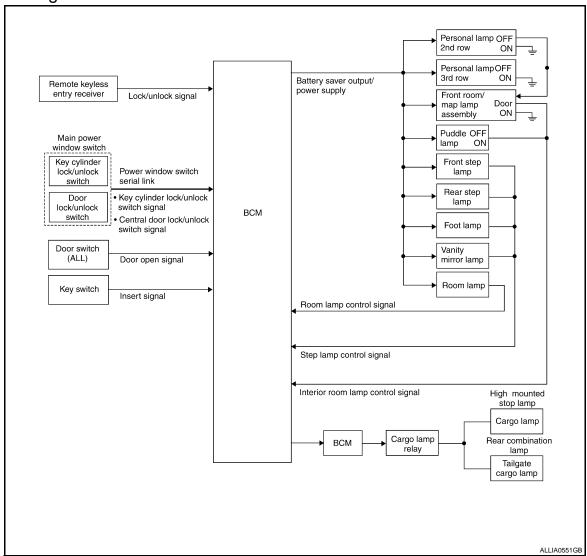
DIAGNOSIS AND REPAIR WORKFLOW	
< BASIC INSPECTION >	
YES >> GO TO 5 NO >> GO TO 11	А
11. REPAIR CHECK (OPERATION CHECK)	
Check the operation of each part.	
Does it operate normally?	В
YES >> INSPECTION END	
NO >> GO TO 3	С
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# **FUNCTION DIAGNOSIS**

#### INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

INFOID:0000000001621666



#### **System Description**

INFOID:0000000001621667

#### **OUTLINE**

- Interior room lamps\* are controlled by the interior room lamp timer control function of the BCM.
   \*Room lamp, Front room/map lamp assembly (if equipped), personal lamp 2nd row (if equipped and when lamp switch is in DOOR position) and puddle lamps (if equipped).
- Cargo lamp and tailgate cargo lamps (if equipped) are controlled by the cargo lamp control function of the BCM.
- Step lamps\* are controlled by the step lamp control function of the BCM.

\*Front step lamps, rear step lamps and foot lamps (if equipped).

The timer control functions of the BCM activate based on inputs from the remote keyless entry receiver, the door switches, the key switch (column shift), the key switch and key lock solenoid (floor shift or the cargo lamp switch.

#### ROOM LAMP TIMER OPERATION

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

#### < FUNCTION DIAGNOSIS >

- When the front door LH is unlocked [with the main power window and door lock/unlock switch, front door lock assembly (key cylinder switch)].
- When the front door LH is unlocked with the remote keyless entry system (if equipped).
- When a door opens → closes and the key is not inserted in the ignition slot.

Timer control is canceled under the following conditions.

- When the front door LH is locked [with the main power window and door lock/unlock switch or front door lock assembly (key cylinder switch)]
- When the front door LH is locked with the remote keyless entry system (if equipped).
- A door is opened (door switch turns ON).
- The ignition switch is turned ON.

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

#### INTERIOR LAMP BATTERY SAVER CONTROL

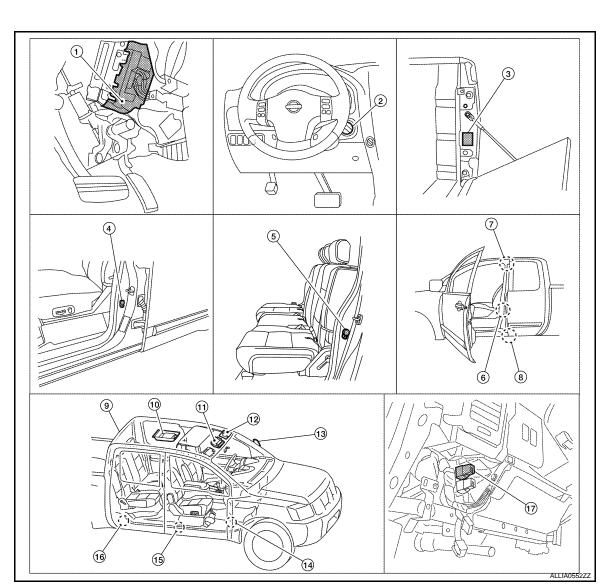
If an interior lamp is left ON and does not turn OFF even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery 30 minutes after the ignition switch is turned OFF. The BCM controls power and ground to all interior lamps.

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

- a signal is received from the keyless entry system
- a door is opened or closed
- the 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.

#### Component Parts Location



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#### < FUNCTION DIAGNOSIS >

- 1. BCM M18, M19, M20 (view with instru- 2. ment panel removed)
- Key switch M80 (column shift)Key switch and lock solenoid M27 (floor shift)
- 3. Tailgate cargo lamp LH C13 RH C14

- Front door switch (crew cab)
   LH B8
   RH B108
- Rear door switch (crew cab)
   LH B18
   RH B116
- 6. Front door switch (king cab)
  LH B8
  RH B108

- Rear door switch upper (king cab) LH B73 RH B156
- Rear door switch lower (king cab)
   LH B74
   RH B157
- 9. Cargo lamp B158

- Personal lamp 2nd row (with sunroof) R203
- 11. Front room/map lamp assembly (with front roof console) R102
- 12. Vanity lamp LH R3 RH R8

- Room lamp (without front roof console) R9
- 14. Foot lamp LH M99 RH M100

15. Front step lamp LH D11 LH D109

LH D4 RH D107

13. Door mirror (puddle lamp)

- Rear step lamp (crew cab)
   LH D206
   RH D306
- 17. Cargo lamp relay M150 (view with lower instrument panel LH removed)

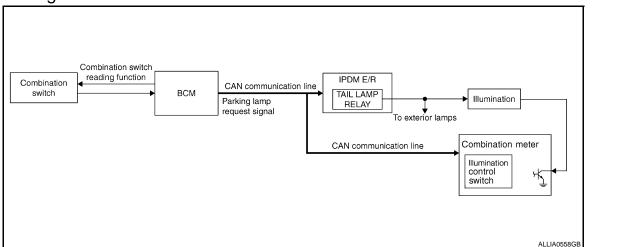
#### Component Description

INFOID:0000000001621669

Part name	Description	
BCM	Provides power and ground and controls timer functions for the interior room lamps, step lamps and cargo lamp.	
Key switch (column shift)	Provides key in ignition status to the RCM	
Key switch and lock solenoid (floor shift)	Provides key in ignition status to the BCM.	
Door switches	Provides door OPEN/CLOSED status to the BCM.	
Cargo lamp switch	Provides cargo lamp ON/OFF request to the BCM.	
Power window and door lock/unlock switch RH	Provides door lock/unlock position switch RH status to the BCM.	
Main power window and door lock/unlock switch [front door lock assembly LH (key cylinder switch)].	Provides door lock/unlock position switch LH status to the BCM.	

#### ILLUMINATION CONTROL SYSTEM

#### System Diagram



#### System Description

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INFOID:0000000001621670

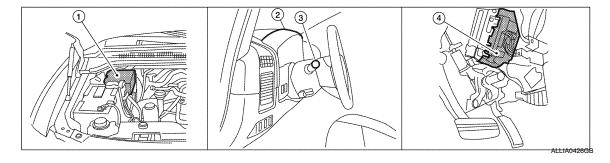
The illumination lamp operation is dependent upon the position of the lighting switch (combination switch). When the lighting switch is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives input requesting the parking lamps to illuminate.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

#### BATTERY SAVER CONTROL

When the 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.

#### Component Parts Location

INFOID:0000000001621672



- IPDM E/R E122, E123, E124
- BCM M18, M20 (view with instrument panel removed)
- 2. Combination meter (illumination control switch) M24, M25
- 3. Combination switch M28

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#### **ILLUMINATION CONTROL SYSTEM**

#### < FUNCTION DIAGNOSIS >

# **Component Description**

INFOID:0000000001621673

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

#### < FUNCTION DIAGNOSIS >

# **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

**COMMON ITEM: CONSULT-III Function** 

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

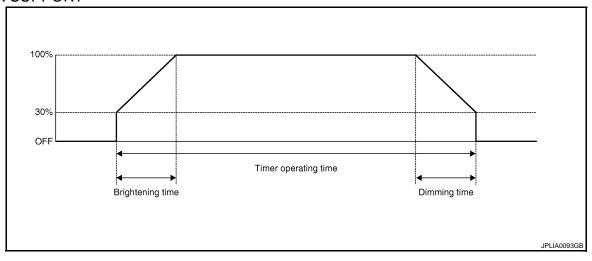
BCM diagnostic test item	Diagnostic mode	Description
WORK SUPPORT		Supports inspections and adjustments. Commands are transmitted to the BCM for setting the status suitable for required operation, input/output signals are received from the BCM and received data is displayed.
	DATA MONITOR	Displays BCM 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.

**INT LAMP** 

**INT LAMP: CONSULT-III Function** 

INFOID:0000000001621675

#### **WORK SUPPORT**



Service item	Setting item		Setting	
	ON	With the i	With the interior room lamp timer function	
SET I/L D-UNLCK INTCON	OFF	Without the interior room lamp timer function		
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.		
	MODE 2	1 sec.		
	MODE 3	2 sec.		
	MODE 4	3 sec.	Sets the interior room lamp gradual brightening time.	
	MODE 5	4 sec.		
	MODE 6	5 sec.		
	MODE 7	0 sec.		

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#### < FUNCTION DIAGNOSIS >

Service item	Setting item		Setting	
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.		
	MODE 2	1 sec.		
	MODE 3	2 sec.		
	MODE 4	3 sec.	Sets the interior room lamp gradual dimming time.	
	MODE 5	4 sec.		
	MODE 6	5 sec.		
	MODE 7	0 sec.		

#### DATA MONITOR

Monitor item [Unit]	Description	
IGN ON SW [ON/OFF]	The switch status input from ignition switch	
KEY ON SW [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	
BACK DOOR SW [ON/OFF]	Listed, but not monitored	
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	
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	
KEYLESS LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver	
KEYLESS 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 the front room/map lamp, personal lamps (Map lamp switch is in DOOR position) and puddle lamps (if equipped) ON.	
	OFF	Stops the interior room lamp control signal to turn the front room/map lamp, personal lamps (Map lamp switch is in DOOR position) and puddle lamps (if equipped) OFF.	
IGN ILLUM OFF	ON	Outputs the ignition keyhole illumination signal to turn the ignition keyhole illumination ON.	
	Stops the ignition keyhole illumination signal to turn the ignition keyhole illumination OFF.		

#### < FUNCTION DIAGNOSIS >

Test item	Operation	Description
ON STEP LAMP TEST		Outputs the step lamp control signal to turn the step lamps and foot lamps (if equipped) ON.
OFF OFF	Stops the step lamp control signal to turn the step lamps and foot lamps (if equipped) OFF.	
LUGGAGE LAMP TEST ON OFF	Outputs the cargo lamp control signal to turn cargo lamp ON.	
	Stops the cargo lamp control signal to turn cargo lamp OFF.	

# **BATTERY SAVER**

#### **BATTERY SAVER: CONSULT-III Function**

#### INFOID:0000000001621676

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#### **WORK SUPPORT**

Service item	Setting item	Setting
ROOM LAMP TIMER SET	MODE 1 (ON)	Interior room lamp timer activates with synchronizing all doors.
	MODE 2 (OFF)	Interior room lamp timer activates with synchronizing the front door LH only.

#### DATA MONITOR

Monitor item [Unit]	Description
IGN ON SW [ON/OFF]	The switch status input from ignition switch
KEY ON SW [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
BACK DOOR SW [ON/OFF]	Listed, but not monitored
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
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
KEYLESS LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver
KEYLESS UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver

#### **ACTIVE TEST**

#### < FUNCTION DIAGNOSIS >

Test item	Operation	Description
BATTERY SAVER	ON	Outputs the battery saver output/power supply to turn the interior lamps ON.
DATTERT SAVER	OFF	Stops the battery saver output/power supply to turn the interior lamps OFF.

#### **POWER SUPPLY AND GROUND CIRCUIT**

< COMPONENT DIAGNOSIS >

# **COMPONENT DIAGNOSIS**

# POWER SUPPLY AND GROUND CIRCUIT BCM

**BCM**: Inspection Procedure

INFOID:0000000001621677

POWER SUPPLY AND GROUND CIRCUIT INSPECTION FOR BCM

For information about power and ground circuit inspection for the BCM, refer to <u>BCS-29, "Diagnosis Procedure"</u>.

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#### **BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT**

#### < COMPONENT DIAGNOSIS >

#### BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description INFOID.000000001621678

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

#### Component Function Check

INFOID:0000000001621679

# 1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

#### (P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. Turn each interior room lamp ON.
- Front step lamps
- Rear step lamps (crew cab)
- Puddle lamps (if equipped)
- Foot lamps (if equipped)
- Room lamp (if equipped)
- Front room/map lamp assembly (if equipped)
- Vanity lamps (if equipped)
- Tailgate cargo lamps (if equipped)
- Personal lamp 2nd row (if equipped)
- 3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 4. While 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 >> Battery saver output/power supply circuit is normal.

NO >> Refer to INL-16, "Diagnosis Procedure".

#### Diagnosis Procedure

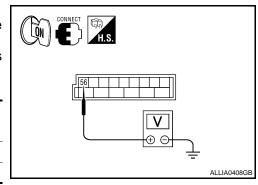
INFOID:0000000001621680

# 1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

#### (P)CONSULT-III

- 1. Turn ignition switch ON.
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 3. With test item operating, check voltage between BCM harness connector M20 terminal 56 and ground.

(-	+)	(-)	Test item	Voltage
Connector	Terminal	(-)	BATTERY SAVER	voltage
M20	56	Ground	OFF	0V
IVIZU	56	Giodila	ON	Battery voltage



#### Is the voltage reading as specified?

YES >> GO TO 2

NO >> Replace BCM. Refer to BCS-50, "Removal and Installation".

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

- 1. Turn ignition switch OFF.
- 2. Disconnect the following connectors.
- BCM M20
- Front step lamp LH
- Front step lamp RH
- Door mirror LH (with puddle lamps)

#### BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

#### < COMPONENT DIAGNOSIS >

- Door mirror RH (with puddle lamps)
- Rear step lamp LH (crew cab)
- Rear step lamp RH (crew cab)
- Foot lamp LH (if equipped)
- Foot lamp RH (if equipped)
- Room lamp (if equipped)
- Front room/map lamp assembly (if equipped)
- Vanity lamp LH (if equipped)
- Vanity lamp RH (if equipped)
- Personal lamp 2nd row (if equipped)
- 3. Check continuity between BCM harness connector and each interior room lamp harness connector.

BC	BCM Each interior room lamp				Continuity
Connector	Terminal	Connector Te		Terminal	Continuity
		Front step lamp LH	D11	1	
		Front step lamp RH	D109	1	
		Door mirror LH (with puddle lamps)	D4	12	
		Door mirror RH (with puddle lamps)	D107	12	
		Rear step lamp LH (crew cab)	D206	1	
		Rear step lamp RH (crew cab)	D306	1	
M20 56	56	Foot lamp LH (if equipped)	M99	1	Yes
		Foot lamp RH (if equipped)	M100	1	100
		Room lamp (if equipped)	R9	2	
		Front room/map lamp assembly (if equipped)	R102	6	
		Vanity lamp LH (if equipped)	R3	1	
		Vanity lamp RH (if equipped)	R8	1	
		Personal lamp 2nd row (if equipped)	R203	3	

#### Does continuity exist?

YES >> GO TO 3

NO >> Repair the harnesses or connectors.

# 3.check battery saver output/power supply short circuit

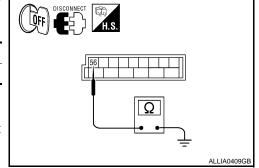
Check continuity between BCM harness connector M20 terminal 56 and ground.

Connector	Terminal	_	Continuity
M20	56	Ground	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 INFOID:000000001621681

Controls the following interior room lamps (ground side) by pulse width modulated signal

- Puddle lamps (if equipped)
- Room lamp (if equipped)
- Front room/map lamp assembly (if equipped)
- Personal lamp 2nd row (if equipped)

#### NOTE:

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

#### Component Function Check

INFOID:0000000001621682

#### **CAUTION:**

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

- Battery saver output/power supply
- Room lamp bulb (if equipped)
- Puddle lamp bulbs (if equipped)
- Front room/map lamp bulbs (if equipped)
- Personal lamp bulbs (if equipped)
- $1.\mathsf{check}$  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.
- With the test items operating, 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 <a href="INL-18">INL-18</a>, "Diagnosis Procedure".

#### Diagnosis Procedure

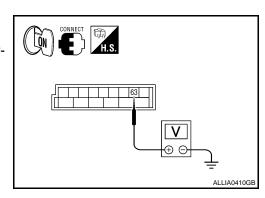
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#### 1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### (P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. Select "INT LAMP" of BCM (INT LAMP) active test item.
- While operating the test item, check voltage between BCM harness connector M20 terminal 63 and ground.

(+)		(-)	INT LAMP	Voltage	
Connector	Terminal	(-)	IIVI LAWII	voltage	
M20	63	Ground	ON	0V	
IVIZU	63	Giodila	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.

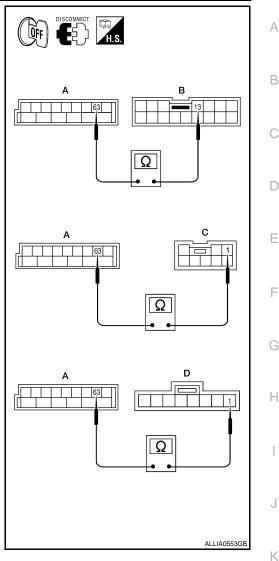
2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

#### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, door mirror connectors, room lamp connector or front room/map lamp connector (if equipped).
- Check continuity between BCM harness connector M20 terminal 63 and the door mirror connectors and front room/map lamp harness connector.

Connector	Terminal	Component	Connector	Terminal	Continuity
		Door mirror LH (puddle lamp)	B:D4	13	
A:M20	63	Door mirror RH (puddle lamp)	B:D107	13	Yes
		Room lamp	C:R9	1	
		Front room/map lamp	D:R102	1	



- 4. If equipped with personal lamp 2nd row, reconnect the front room/map lamp connector R102.
- Check continuity between BCM harness connector M20 (A) terminal 63 and the 2nd row personal lamp harness connector R203 (B) terminal 1.

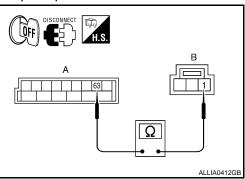
	A		В	
Connector	Terminal	Connector	Terminal	Continuity
M20	63	R203	1	Yes

#### Are the continuity test results as specified?

YES >> Replace the room lamp, front room/map lamp, door mirror or personal lamp. Refer to <a href="INL-58">INL-58</a>, "Removal and Installation".

NO >> Repair the harnesses or connectors.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT



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#### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < COMPONENT DIAGNOSIS >

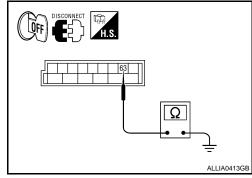
- Turn ignition switch OFF.
- Disconnect BCM connector M20, door mirrors and personal lamp 2nd row connectors.
- Move the room/map lamp switch to the ON position.
   Check continuity between BCM harness connector and ground.

Connector	Terminal	_	Continuity
M20	63	Ground	No

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM. Refer to BCS-50, "Removal and Installation"



#### STEP LAMP CIRCUIT

#### < COMPONENT DIAGNOSIS >

#### STEP LAMP CIRCUIT

Description INFOID:000000001621684

Controls the front and rear step lamps and the foot lamps (ground side) to turn the lamps ON and OFF.

#### Component Function Check

#### **CAUTION:**

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

- Battery saver output/power supply
- Step lamp and/or foot lamp bulb

# 1. CHECK STEP LAMP OPRATION

#### (P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- While operating the test items, check that the front/rear step lamps and foot lamps (if equipped) turn ON/ OFF.

ON: Step lamp ON
OFF: Step lamp OFF

#### Do the lamps turn ON/OFF?

YES >> Step lamp circuit is operating.

NO >> Refer to INL-21, "Diagnosis Procedure".

#### Diagnosis Procedure

# 1. CHECK STEP LAMP OUTPUT

#### (P)CONSULT-III

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

Connector	Terminal	_	STEP LAMP TEST	Voltage
M20	62	Ground	ON	0V
IVIZO	02	Oround	OFF	Battery voltage

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#### 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

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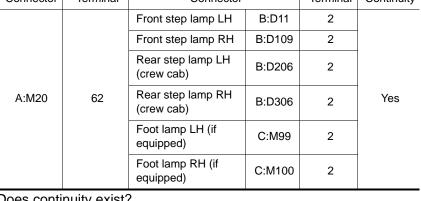
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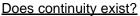
#### STEP LAMP CIRCUIT

#### < COMPONENT DIAGNOSIS >

- Turn ignition switch OFF.
- Disconnect BCM connector M20 and front step lamp, rear step lamp (if equipped) and foot lamp connectors (if equipped).
- 3. Check continuity between BCM harness connector, step lamp harness connectors and foot lamp connectors (if equipped).

Connector	Terminal	Connector		Terminal	Continuity
		Front step lamp LH	B:D11	2	
		Front step lamp RH	B:D109	2	
		Rear step lamp LH (crew cab)	B:D206	2	
A:M20	62	Rear step lamp RH (crew cab)	B:D306	2	Yes
		Foot lamp LH (if equipped)	C:M99	2	
		Foot lamp RH (if equipped)	C:M100	2	





YES >> Replace lamp. Refer to INL-58, "Removal and Installation" .

NO >> Repair harnesses or connectors.

# 3.check step lamp short circuit

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M20 and front step lamp, rear step 2. lamp (if equipped) and foot lamp connectors (if equipped).
- 3. Check continuity between BCM harness connector M20 terminal 62 and ground.

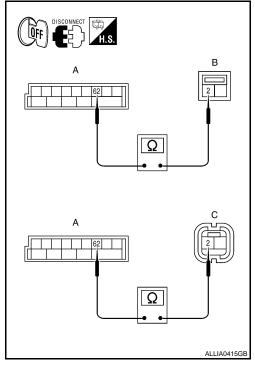
Connector	Terminal	_	Continuity
M20	62	Ground	No

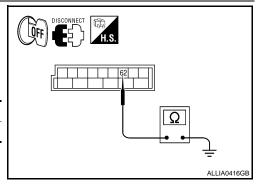
#### Does continuity exist?

NO

YES >> Repair the harnesses or connectors.

>> Replace BCM. Refer to BCS-50, "Removal and Installation".





#### **CARGO LAMP CONTROL CIRCUIT**

#### < COMPONENT DIAGNOSIS >

#### CARGO LAMP CONTROL CIRCUIT

Description INFOID:000000001621687

The BCM controls ground to the cargo lamp relay to turn the the cargo lamp and tailgate cargo lamps (if equipped) ON and OFF.

#### Component Function Check

#### INFOID:0000000001621688

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#### **CAUTION:**

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

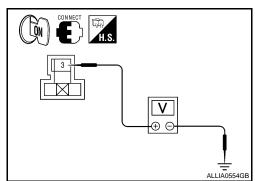
- Battery saver output/power supply
- Cargo lamp bulb
- Tailgate cargo lamp bulbs

# 1. CHECK CARGO LAMP OPERATION

#### (P)CONSULT-III

- 1. Turn ignition switch ON.
- Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
- 3. With operating the test items, check voltage between cargo lamp relay harness connector M150 terminal 3 and ground.

(-	+)	(-)	Voltage	
Connector	Terminal	(-)	voltage	
M150	3	Ground	Battery voltage	



#### Is battery voltage present?

YES >> Cargo lamp relay is operating normally.

NO >> Refer to INL-23, "Diagnosis Procedure".

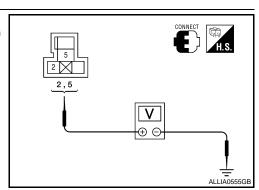
#### Diagnosis Procedure

#### INFOID:0000000001621689

#### 1. CHECK CARGO LAMP RELAY POWER

Check voltage between cargo lamp relay harness connector M150 terminals 2 and 5 and ground.

(-	(+)		Voltago	
Connector	Terminal	(-)	Voltage	
M150	2	Ground	Rattery voltage	
W1130	5	Giodila	Battery voltage	



#### Is battery voltage present?

YES >> GO TO 2.

NO >> Check fuse. Repair harness or connector

2.CARGO LAMP RELAY COMPONENT INSPECT

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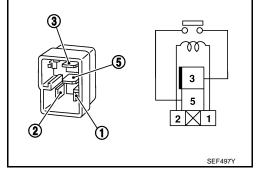
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#### **CARGO LAMP CONTROL CIRCUIT**

#### < COMPONENT DIAGNOSIS >

- 1. Disconnect cargo lamp relay connector M150.
- 2. Supply power to terminal 2 and ground to terminal 1 of cargo lamp relay.
- 3. Check continuity between cargo lamp relay terminals 3 and 5.

Terminal Condition		Condition	Continuity
2	5	Power and ground supplied to terminals 1 and 2	Yes
	3   5	No power and ground supplied	No



#### Are continuity test results as specified?

YES >> GO TO 3.

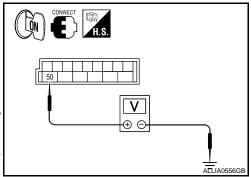
NO >> Replace the cargo lamp relay.

# 3. CHECK CARGO LAMP RELAY CONTROL

#### (E)CONSULT-III

- 1. Connect cargo lamp relay harness connector M150.
- 2. Turn ignition switch ON.
- Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
- 4. While operating the test item, check voltage between the BCM harness connector M19 terminal 50 and ground.

(+)		(-)	LUGGAGE LAMP TEST	Voltage
Connector	Terminal	(-)	LOGOAGE LAWI 1231	voltage
M19	50	Ground	ON	0V
IVI 19	50	Giodila	OFF	Battery voltage



#### Are voltage readings as specified?

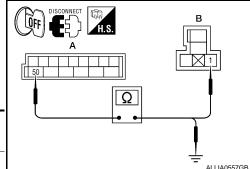
YES >> Relay is operating normally.

NO >> GO TO 4.

#### 4. CARGO LAMP RELAY CONTROL CIRCUIT INSPECTION

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M19 and cargo lamp relay connector M150.
- Check continuity between BCM harness connector M19 (A) terminal 50 and cargo lamp relay harness connector M150 (B) terminal 1.

-	A		Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
M19	50	M150	1	Yes	



4. Check continuity between BCM harness connector M19 (A) terminal 50 and ground.

	A	_	Continuity
Connector	Terminal		Continuity
M19	50	Ground	No

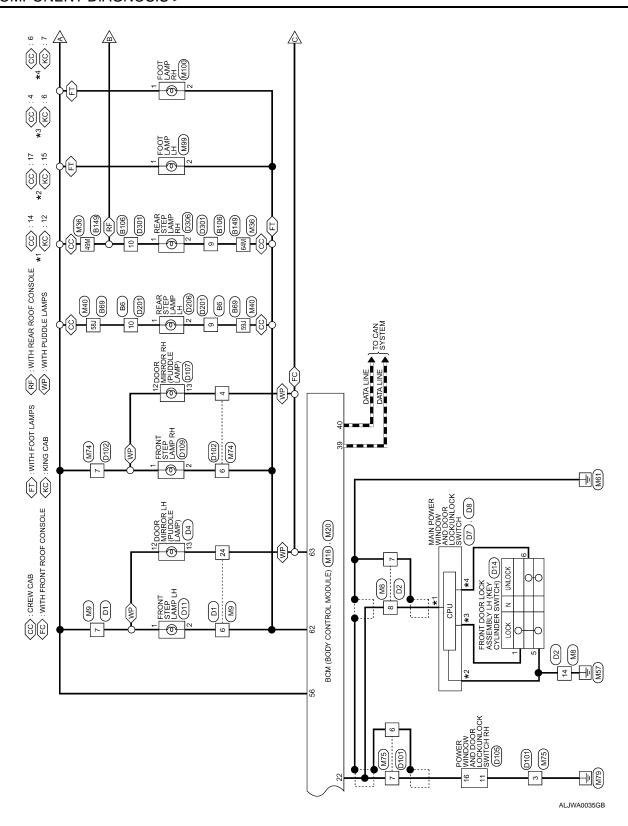
#### Are continuity test results as specified?

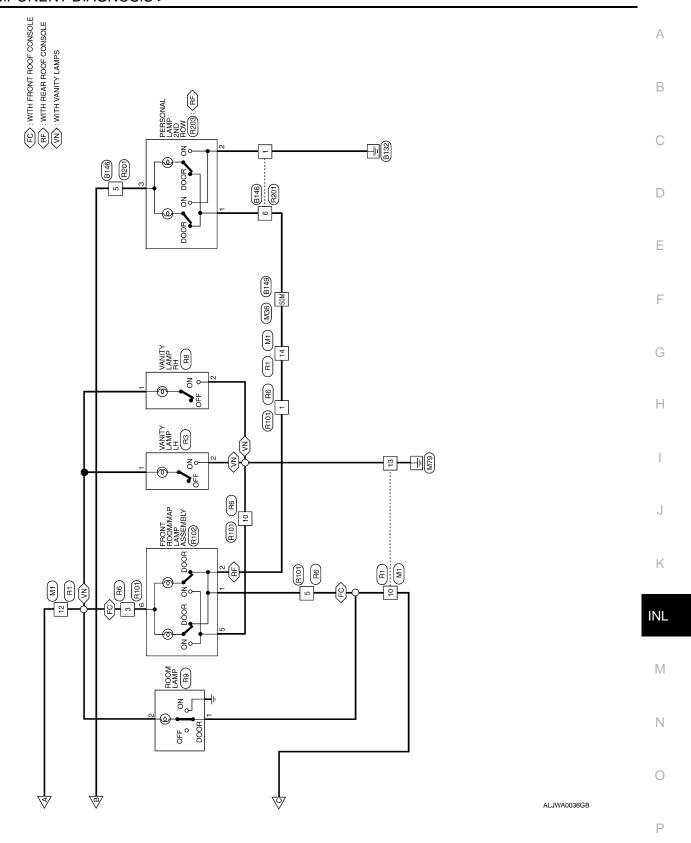
YES >> Replace the BCM. Refer to BCS-50, "Removal and Installation".

NO >> Repair harness or connector.

#### **INTERIOR ROOM LAMP CONTROL SYSTEM** Α Wiring Diagram INFOID:0000000001621693 ⟨CC⟩: CREW CAB ⟨SS⟩: COLUMN SHIFT ⟨FS⟩: FLOOR SHIFT ⟨KC⟩: KING CAB ⟨TL⟩: WITH TAILGATE CARGO LAMPS REAR COMBINATION COMBINATION (TAILGATE CARGO LAMP) В CARGO LAMP SWITCH C REAR COMBINATION LAMP LH (TAILGATE CARGO (C13) : (TL) D - B133 REAR DOOR SWITCH UPPER RH (B156) REAR DOOR SWITCH LOWER RH (8157) 450 E41 C1 Е E15 - Till (1) F 306 E152 M31 FUSE BLOCK (J/B) (M3), (M39) SWITCH RH (B108) G (M19), (M20) CARGO LAMP RELAY Н 10A BCM (BODY CONTROL MODULE) (M18), REAR DOOR SWITCH RH (B116): < CC 15A Sem M36 B149 KEY SWITCH AND KEY LOCK SOLENOID (M27) REMOVED INSER J REAR DOOR SWITCH UPPER LH (B73) REAR DOOR SWITCH LOWER LH (B74) 10A Κ M80 REMOVED INS INL <del>-</del>[6] FRONT DOOR SWITCH LH (B8) M H E NTERIOR ROOM LAMP 90 50A F Ν BATTERY 90 REAR DOOR SWITCH LH (B18): < CC 0 61.J B69 M40 7G E152 IGNITION SWITCH ON OR START 10A 59 Р

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Connector Name WIRE TO WIRE Connector Color WHITE

Connector No.

# INTERIOR ROOM LAMP CONNECTORS

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

Connector Name FUSE BLOCK (J/B)

Connector No. M3

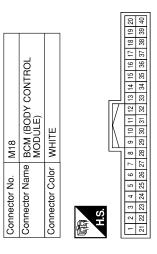
Connector Color WHITE



16 15 14 13 12 11 10 9 8	Signal Name	ı	_	1
16 15 14 13	Color of Wire	٦	В	В
HS	Terminal No. Wire	10	13	14

	Signal Name	ı	1	ı	
	Color of Wire	SHIELD	g	В	
	Terminal No. Wire	9	æ	14	
	Terminal No. Wire Signal Name	_			
	Color of Wire	Y/R			
	Terminal No.	NΙ			
·					
	Signal Name	-	-	1	
	Color of Wire	Γ	В	œ	

olginal Ivallie	1	ı	_		Signal Name	DOOR SW (AS)	DOOR SW (RR)	ANTI-PINCH SERIAL LINK (RX, TX)	CARGO_LAMP_SW	KEY SW
wire	SHIELD	ŋ	В		Color of Wire	B/L	GR	G	P/L	B/R
errillra No.	9	8	14		Terminal No.	12	13	22	31	37

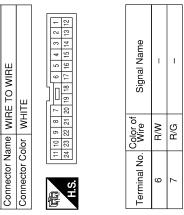


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Connector No.

#### < COMPONENT DIAGNOSIS >

SWITCH A SWITCH A SK SOLENO	3 2 1	ITE	Connector Name KEY SWITCH AND KEY LOCK SOLENOID	
Connector No. M27 Connector Name KEY SV Connector Color WHITE  MAS  H.S.	H.S.	onnector Color   WI	onnector Name KE	

	KEY SWITCH AND KEY LOCK SOLENOID	ITE	1 Z Z E	Signal Name	1	1
. M27		lor WHITE	4	Color of Wire	Y/R	B/R
Connector No.	Connector Name	Connector Color	A.S.	Terminal No. Wire	3	4

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

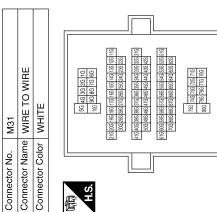


BAT (FL)

M/B

n	BCM (BODY CONTROL MODULE)	WHITE	41   42   43   44   45   46   47   48   49	Signal Name	(Pa) WS HOOd	DOOR SW (RL)	CARGO - BEDLAMP
M19		lor WF	41 42	Color of Wire	SB	R/Υ	R/Y
Connector No.	Connector Name	Connector Color	H.S.	Terminal No. Wire	47	48	20

Signal Name	ı	I	ı
Color of Wire	M/L	M/B	Υ
Terminal No.	76	10G	30G



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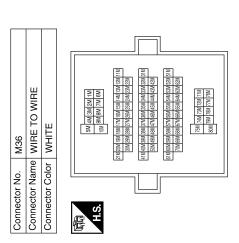
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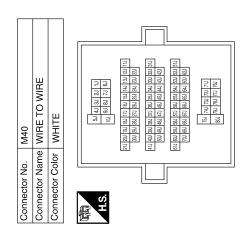
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Connector No.	). M39	6
Connector Name		FUSE BLOCK (J/B)
Connector Color		WHITE
高 H.S.	30 [	80/70 80 50 40
Terminal No. Wire	Color of Wire	Signal Name
4Q	Y/R	1
8	G	ı

ne						
Signal Name	1	ı	ı	1	ı	1
Color of Wire	R/G	æ	GR	re	R/L	R/W
Terminal No.	49M	20M	26M	27M	61M	64M



Signal Name	-	_	-	-
Color of Wire	B/G	R/W	SB	R/Y
Terminal No.	£81	P65	F09	61J



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#### < COMPONENT DIAGNOSIS >

ector No. M74	4	Connector No. M75	). M75		Connector No. M99	о. М99	
ector Name WIRE TO WIRE	RE TO WIRE	Connector Name WIRE TO WIRE	ame WIRE	E TO WIRE	Connector Name FOOT LAMP LH	ame FOO	LAMP LH
ector Color BROWN	OWN	Connector Color WHITE	olor WHI	1	Connector Color BROWN	olor BRO	NN
		E			1	(6)	
9 8 7 6 20 19 18 17	5 4 3 2 1 16 15 14 13 12 11 10	H.S.	10 9 3	8 7 6 5	H.S.		
						,	) 1
nal No. Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
1	ı	б	В	1	-	B/G	1
R/W	1	9	SHIELD	1	2	M/A	1
7 R/G	ı	7	5	1			

	CARGO LAMP RELAY			2 3		Signal Name	1	ı	ı	
Connector No. M150	Connector Name C	Connector Color BLUE				al No. Wire	g	R/Y	g	-
Connec	Connec	Connec	9	SH SH		Terminal No.	-	2	ဧ	۱.

			1						
49	CARGO LAMP SWITCH	WHITE	4	1 2 3 5	Signal Name	ı	ı	I	-
o. M149		-			Color of Wire	P/L	BB	ш	R/L
Connector No.	Connector Name	Connector Color	E	H.S.	Terminal No.	1	2	က	4
						_			

00	FOOT LAMP RH	BROWN		Signal Name	I	_
. M100	me FO	_		Color of Wire	B/G	R/W
Connector No.	Connector Name	Connector Color	H.S.	Terminal No. Wire	1	2

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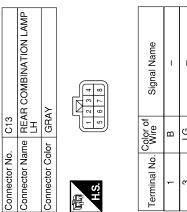
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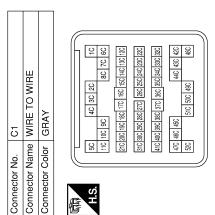
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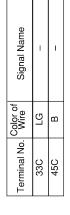
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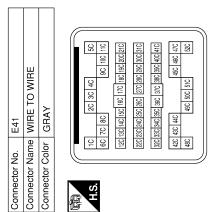
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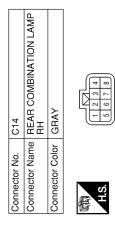


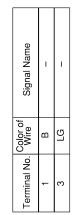
Signal Name	ı	Ī	
Color of Wire	ГG	В	
Terminal No.	33C	45C	









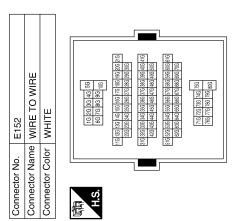


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#### < COMPONENT DIAGNOSIS >

Connector No.		B6	
Connector Name	ame \	WIRE TO WIRE	
Connector Color		WHITE	
原 H.S.	10 9 8	10  9   8   7   6   10   11   12   11   11   11   11   11	2 11
Terminal No. Wire	Color Wire	of Signal Name	Name
6	R/W		ı
10	B/G		1

Signal Name	ı	ı	ı	
Color of Wire	N N	M/B	<b>\</b>	
Terminal No.	76	10G	30G	



Connector No.	). B18	
Connector Name		REAR DOOR SWITCH LH
Connector Color		WHITE
H.S.		\(\sigma - \operatorname{\sigma} \)
Terminal No.	Color of Wire	Signal Name
2	R/Y	ı
က	В	1

Connector No.	B8	
Connector Name		FRONT DOOR SWITCH LH
Connector Color	olor WHITE	ITE
H.S.		
Terminal No. Wire	Color of Wire	Signal Name
2	SB	1
က	В	1

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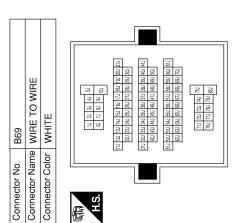
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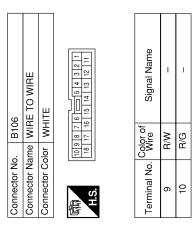
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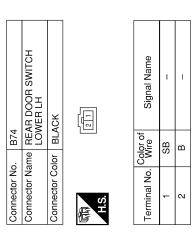
Connector No.		B73	
Connector Name		REAR	REAR DOOR SWITCH UPPER LH
Connector Color		BLACK	*
原 H.S.		[-\sqrt{2}	
Terminal No. Wire	Solo	e of	Signal Name
-	SB	_	ı
2	m		1

Signal Name	-	-	_	I
Color of Wire	B/G	R/W	SB	R/Y
Terminal No.	58J	59J	F09	61J



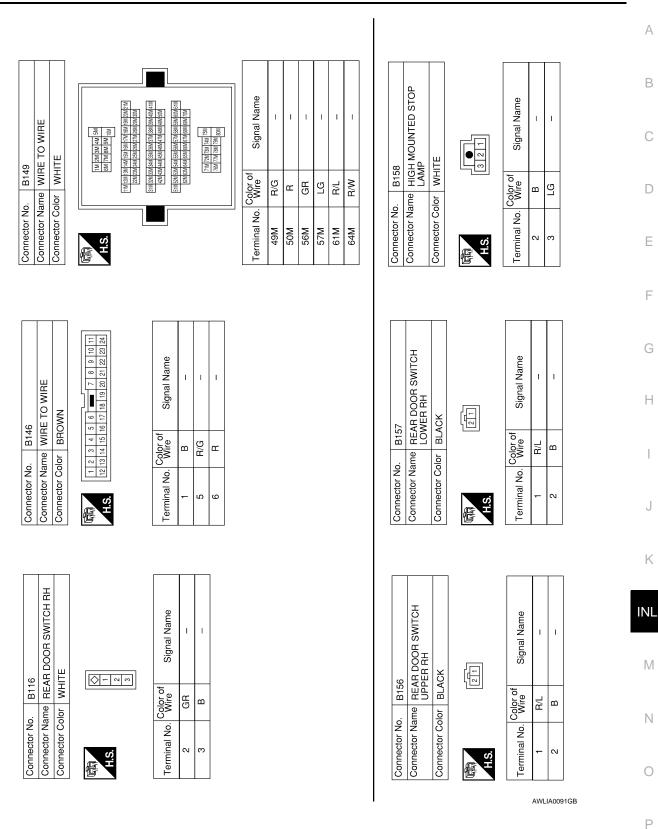
			ı		_	
80	FRONT DOOR SWITCH RH	WHITE		Signal Name	1	ı
). B108				Color of Wire	R/L	m
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	2	က



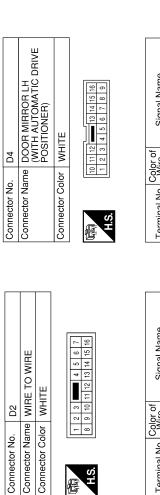


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#### < COMPONENT DIAGNOSIS >



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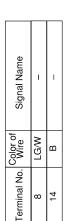
Connector Color WHITE

Connector No.

Connector Name WIRE TO WIRE Connector Color BROWN

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Connector No.



Signal Name	ı	-	_	
Color of Wire	B/W	B/G	٦	
Terminal No.	9	7	24	

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

Connector Name	MAIN POWER WINF
	AND DOOR LOCK/L SWITCH
Connector Color	WHITE
H.S.	17 18 19

Connector No. D7 Connector Name MAIN P AND DC SWITCI Connector Color WHITE	Connector No. D7 Connector Name MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (CREW CAB) Connector Color WHITE
	1 2 3 4

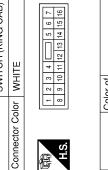
1	Color WHITE	1 2 3 4	8 9 10 11 12 13 14	
	Connector Color	唐	SI	

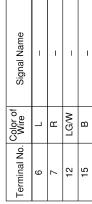
Signal Name	LOCK	NNLOCK	ANTI PINCH SERIAL_LINK
Color of Wire	Т	ш	LG/W
Terminal No. Wire	4	9	14

Signal Name

Terminal No.

Connector No. D7 Connector Name MAIN P AND DC SWITCI Connector Color WHITE	OWE
H.S.	2 3 4 5 6 7 9 10 11 12 13 14 15 16





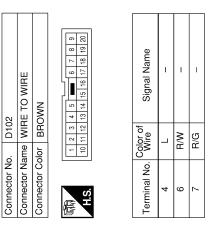
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# INTERIOR ROOM LAMP CONTROL SYSTEM

# < COMPONENT DIAGNOSIS >

				I		
TO WIRE	8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Signal Name	ı	1	1	
ame WIRE	1 2 9 9	Color of Wire	В	SHIELD	LG/W	
Connector No. D101 Connector Name WIRE TO WIRE Connector Color WHITE	南 H.S.	Terminal No. Wire	က	9	7	
Connector No. D14  Connector Name FRONT DOOR LOCK ASSEMBLY LH Connector Color BLACK	3 4 5	Signal Name	LOCK	GND	UNLOCK	
me FRON ASSE lor BLAC	1 2 0	Color of Wire	_	В	Я	
Connector Name FRONT ASSEMIC Connector Color BLACK	间 H.S.	Color of Wire	-	5	9	
			•			
Connector No. D11 Connector Name FRONT STEP LAMP LH Connector Color WHITE			Signal Name	_	1	
ame FRC	رست	Color of	Wire	R/G	W/A	
Connector No. D11 Connector Name FRONT Connector Color WHITE	可 H.S.		Terminal No.   Wire	-	2	

7	OR MIRROR RH TH AUTOMATIC VE POSITIONER)	ІТЕ	4   5   6   7   8   9	Signal Name	ı	ı
	me DOI		101112	Color of Wire	B/G	_
Connector No	Connector Na	Connector Co	用.S.	Terminal No.	12	13
5	VER WINDOW AND OR LOCK/UNLOCK TCH RH	ПЕ	14 1 12 13 14 15 16 17	Signal Name	GND	ANTI PINCH SERIAL
Connector No. D105	Connector Name POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH	Connector Color WHITE	13 14 5	Terminal No. Wire Signal Name	B GND	LG/W ANTI PINCH SERIAL
	Connector No. D107	Φ	Connector No. D107 Connector Name DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER) Connector Color WHITE	nector No. In nector Name In nector Color In	nector No. D107 nector Name DOOR M (WITH A) DRIVE P nector Color WHITE 1 2 3 4 5 5 S. S. minal No. Color of	Nector Name   D107



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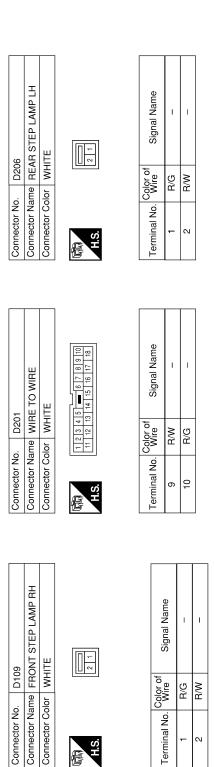
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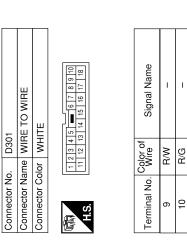
**INL-37** 

# **INTERIOR ROOM LAMP CONTROL SYSTEM**

## < COMPONENT DIAGNOSIS >



Connector No.         D306         Connector Nome         R1           Connector Name         REAR STEP LAMP RH         Connector Name         WIRE TO WIRE           Connector Color         WHTE         Connector Color         WHTE           ALS         I 2 3										
Connector No.   Connector Name   Connector Color   Signal Name   10		E TO WIRE	ПЕ	11 12 13 14 15 16		Signal Name	I	1	1	1
Signal Name	쥰	e WIF	ır   WH			olor of Wire	_	B/G	В	æ
MHITE  Prof Signal Name  We	COLINECTOR INC.	Connector Nan	Connector Colc		H.S.	Terminal No.	10	12	13	41



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# **INTERIOR ROOM LAMP CONTROL SYSTEM**

# < COMPONENT DIAGNOSIS >

Connector No. R3		Connector No.	o. R6		Conne	Connector No.	88 88	
Connector Name VANITY LAMP LH	크	Connector Name WIRE TO WIRE	ame WIRE	E TO WIRE	Conne	ctor Nam	e VANIT	Connector Name VANITY LAMP RH
Connector Color WHITE		Connector Color WHITE	olor WHI	12	Conne	ctor Colo	Connector Color WHITE	
[ z		原 H.S.	7 6 5 -	13 12 11 10 9 8	雨 H.S.		2 1	
70			Color of			Č	olor of	
Terminal No. Wire Signal	Signal Name	Terminal No. Wire	Wire	Signal Name	Termir	Terminal No. Wire	Wire	Signal Name
R/G		-	<b>M</b>	ı			R/G	1
В		က	B/G	ı	N.		В	ı
		5	_	I				
		10	α					

1	WIRE TO WIRE	BROWN	20 19 18 17 16 15 14 13 12	Signal Name	I	-	1
. R201			11 10 9 8 24 23 22 21	Color of Wire	В	R/G	۳
Connector No.	Connector Name	Connector Color	H.S.	Terminal No. Wire	1	2	9

	t	
Connector No.	). R102	20
Connector Name		FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	olor GRAY	AY
Ą		
H.S.	8 7	6 5 4 3 2 1
Terminal No.	Color of Wire	Signal Name
-	٦	I
2	Я	-
5	В	1
œ	B/G	ı

1				1							Г
	11	WIRE TO WIRE	WHITE		3		Signal Name	ı	ı	ı	1
	. R101				8 2 2		Color of Wire	M	B/G	_	æ
	Connector No.	Connector Name	Connector Color		·····································	j	Terminal No. Wire	-	က	2	10

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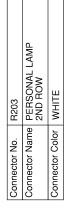
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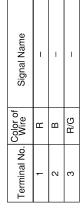
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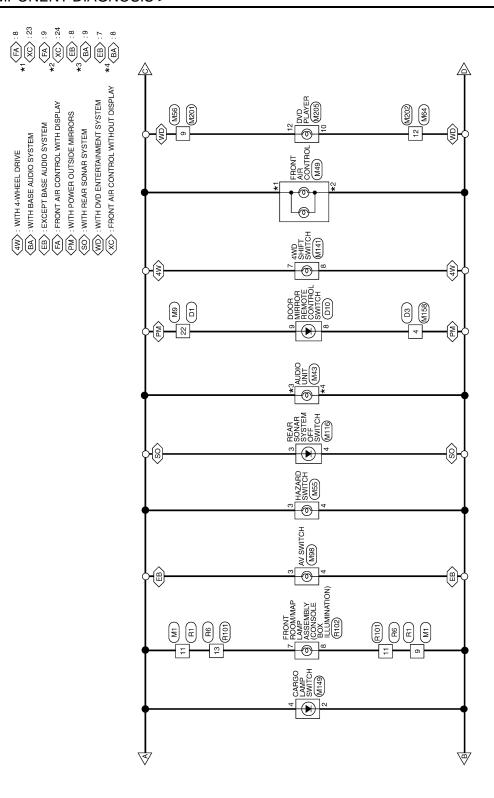




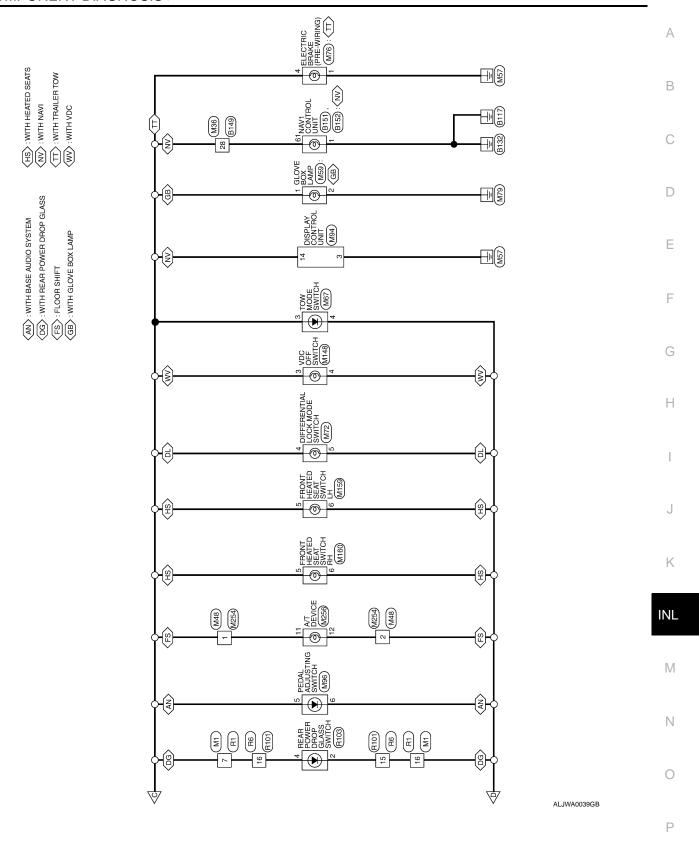
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# **ILLUMINATION** Α Wiring Diagram INFOID:0000000001621694 (RR): WITH REAR AUDIO REMOTE CONTROL UNIT В C - B132 R201 R201 B146 B : DATA LINE D FUSE BLOCK (J/B) (M4), (M39) COMBINATION METER (M24), (M25) Е 10A UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) F 10A METER ILLUMINATION 50 G E152 (M31) IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE MODULE (E122), (E123), (E124) Н 10A 37 J 6 IGNITION RELAY K CPU INL 20A 53 , M20 BCM (BODY CONTROL MODULE) (M18), M M28 IGNITION SWITCH ON OR START 10A Ν COMBINATION SWITCH Ŕ ILLUMINATION 0 E152 M31 50A BATTERY Р

ALJWA0037GB



ALJWA0038GB



Connector No. M9
Connector Name WIRE TO WIRE
Connector Color WHITE

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

Connector Color WHITE

7P 6P 5P 4P 3P 2P 1P 1P 10P 9P 8P

Signal Name

Terminal No. Wire

Signal Name

Terminal No. Wire

0/5

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# ILLUMINATION CONNECTORS

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



Signal Name	_	_	_	_
Color of Wire	B/L	BR	B/L	BR
Terminal No. Wire	7	6	11	16

Signal Name	ı	_	-	_
Color of Wire	B/L	BR	B/L	BR
Terminal No. Wire	7	6	11	16

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

Connector Name BCM (B MODUL Connector Color BLACK BLACK HS.	INIZO	Connector Name BCM (BODY CONT	MODULE)	BLACK		56 57 58 59 60 61 62 63 64 65 66 67 68 69 70		
		Connector Name		Connector Color	Ą		H.S.	

Signal Name	INPUT-5	INPUT-4	INPUT-3	INPUT-2	INPUT-1	OUTPUT-5	OUTPUT-4	OUTPUT-3	OUTPUT-2	OUTPUT-1	IGN SW	CAN-H	CAN-L
Color of Wire	SB	G/Y	<b>&gt;</b>	G/B	>	R/G	R/Υ	_	O/B	B/W	M/L	٦	Ь
Terminal No.	2	က	4	2	9	32	33	34	35	36	38	39	40

GND (POWER)

В

BAT (FL)

M/B

2 29

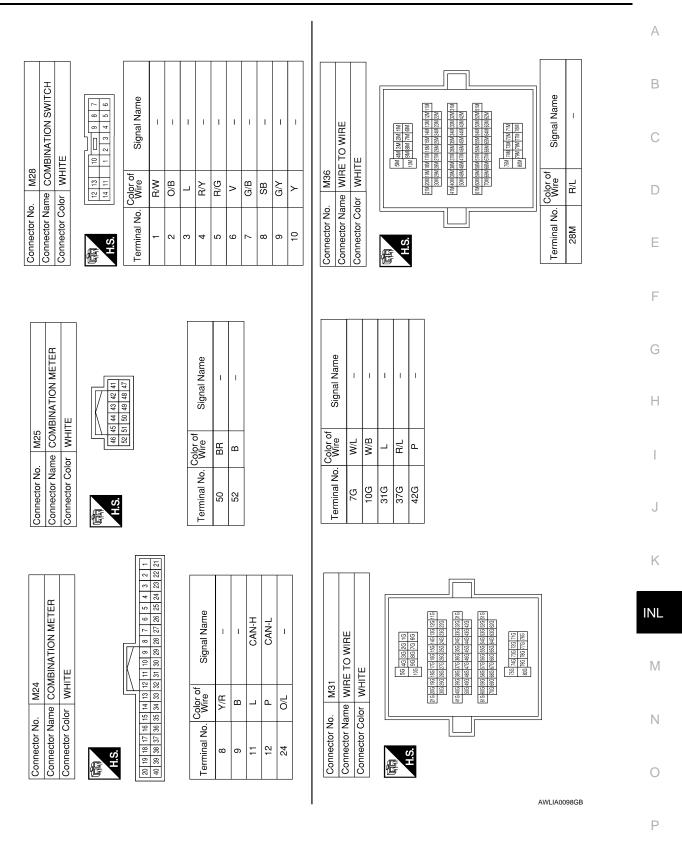
Signal Name

Terminal No. Wire

		20
	1	\$ S
		9 10 11 12 13 14 15 16 17 18 19 29 30 31 32 33 34 35 36 37 38 39
		17
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<u> </u>		<b>₹</b> 8
		£ &
≿	l 17	3 42
일때	I IV	= ₽
lesle	l IN	5 8
BCM (BOE MODULE) WHITE		6 8
<u>8</u> ≥   ∑		7 ∞ %
Φ _		7
[호   호		9 92
ž  ŏ		5 25
Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE		1         2         3         4         5         6         7         8         9         10         11         12         13         14         15         16         17         18         19           21         22         23         24         25         26         27         28         29         30         31         32         33         34         35         36         37         38         39
60   60	(6)	3 3
	H.S.	22
ပြိ ပြိ	唐王	- 2

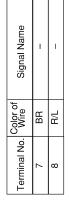
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Connector No. M18

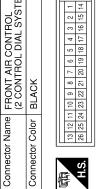


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M43	Connector Name AUDIO UNIT (MID AUDIO SYSTEM) (PREMIUM AUDIO SYSTEM)	WHITE
Connector No.	Connector Name	Connector Color WHITE
	E AUDIO	

3 5 6 7 9 9	Signal Name	_	1
1 2	lal No. Wire	BB	ă
	nal No.		







Signal Name	ILL	GND
Color of Wire	R/L	BR
Terminal No.	8	6





Signal Name	1	ı	
Color of Wire	BR	R/L	
Terminal No.	8	6	

Connector No.	M49
Connector Name	Connector Name FRONT AIR CONTROL (3 CONTROL DIAL SYSTEM)
Connector Color BLACK	BLACK



Signal Name	ILL	GND
Color of Wire	R/L	BR
Terminal No.	23	24



Connector No.





ctor No. M48	Connector Name WIRE TO WIRE	Connector Color BROWN	
Connector No.	Connector N	Connector C	



Signal Name	ILL	GND
Color of Wire	R/L	BR
Terminal No.	-	2



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		7				1
	E TO WIRE	1	2 3	Signal Name	I	
M56	or WIRI		8 9 10	Solor of Wire	R/L	
Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE		师 H.S.	Terminal No. Wire	6	
	) a					
10	Connector Name HAZARD SWITCH (WITH 3 CONTROL DIAL SYSTEM)	IITE	7 6 5 4	f Signal Name	1	1
. M55	me HAZ	lor WH	m &	Color of Wire	R/L	BB
Connector No.	Connector Na	Connector Color WHITE	原 用.S.	Terminal No. Wire	7	8
_						
	Connector Name HAZARD SWITCH (WITH 2 CONTROL DIAL SYSTEM)	TE	2 4	Signal Name	ı	1
M55	ne HAZ, CON	or WHI		Color of Wire	R/L	BB
Connector No.	Connector Nan	Connector Color WHITE	原南 H.S.	Terminal No. Wire	က	4

Connector No.         M59         Connector No.         M67           Connector Name         CLOVE BOX LAMP         Connector Name         WIFE TO WIRE         Connector Name         TOW MODE SWITCH           Connector Color         BROWN         Connector Color         BROWN         Connector Color         CONNECTOR COLOR           M.S.         A.S.         A.S.         A.S.         A.S.         A.S.         A.S.           Terminal No.         Color of Wire         Signal Name         Terminal No.         Color of Wire         Signal Name         Terminal No.         Color of Wire         Signal Name									
Connector No.   M64	7	W MODE SWITCH	AY		4 3 2 1				
Connector No.   M64	M67	ne TO	or GR		9			Solor of Wire	
SOX LAMP  Connector Connector Connector H.S.	Connector No.	Connector Nan	Connector Colc		E	H.S.		Terminal No.	
SOX LAMP  Connector Connector Connector H.S.				-					
SOX LAMP  Connector Connector Connector H.S.		E TO WIRE	NWC		6 - 7 8 9 10 11	5 17 18 19 20 21 22 23 24			
SOX LAMP  Connector Connector Connector H.S.	M64	e WIR	or BRC		3 4 5	14 15 16		color of Wire	)
Connector No. M59 Connector Name GLOVE BOX LAMP Connector Color BROWN  H.S.  Terminal No. Wire Signal Name	Connector No.	Connector Nan	Connector Colc			_		Terminal No.	
Connector No. M59 Connector Name GLOVE BOX LAMP Connector Color BROWN  H.S.  Terminal No. Wire Signal Name							-		
Connector No. M56 Connector Name GLC Connector Color BRC H.S. Terminal No. Color of		30X LAN	NMC			1 2	755 755	Signal Name	,
Connector No. Connector Col	M56	me GL(	or BR(			<u> </u>	IJ.	Solor of Wire	
	Connector No.	Connector Nar	Connector Col		僵	H.S.		Terminal No.	

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

R/L BR

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BB

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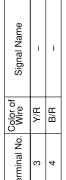
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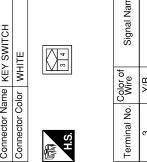
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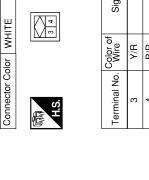
**INL-47** 

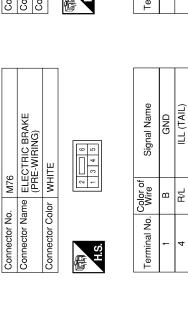
M80	KEY SWITCH	WHITE	
Connector No.	Connector Name KEY SWITCH	Connector Color	
	KE		

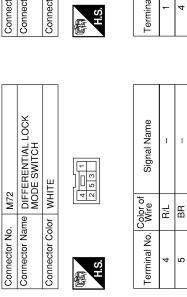




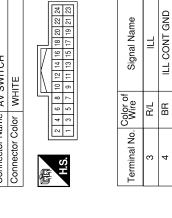








Connector No.	M94	Connector No. M96	M96	Connector No. M	M98
Connector Name DISPLAY C	DISPLAY CONTROL UNIT	Connector Name	Connector Name PEDAL ADJUSTING	Connector Name AV SWITCH	AV SWITCH
Connector Color WHITI	WHITE		OWILCT	Connector Color WHITE	WHITE



Connector Name   PEDAL ADJUSTING   SWITCH	BROWN	2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal Name	ı	1
ne PEC SWI		w 4	Color of Wire	R/L	BR
Connector Nar	Connector Color	南 H.S.	Terminal No.	5	9

Signal Name	ı	ı
Color of Wire	В	B/L
Terminal No.	ဧ	14

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Connector No.	Jo. M116	9	Connector No. M141	lo. M141		Connector No. M148	o. M14	«
Connector N	Vame REA	Connector Name REAR SONAR SYSTEM	Connector N.	lame 4WD	Connector Name 4WD SHIFT SWITCH	Connector Na	ame VDC	Connector Name VDC OFF SWITCH
	L O	SWIICH	Connector Color   WHITE	olor WHI		Connector Color   GRAY	olor   GRA	>
Connector Color GRAY	Solor GRA	٨.						
际 H.S.	9	5 4 3 2 1	E.S.	1 2 3	6 7 8 8	是 H.S.	0 2	2 8 9
Color of Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
က	R/L	1	7	P/L	1	3	B/L	-
4	BR	ı	ω	BR	1	4	BR	1

	65	FRONT HEATED SEAT SWITCH LH	ITE	3 3 9	Signal Name	ı
	M159		or WHITE	[D] 4	Color of Wire	B/L
	Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	5
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Connector No. M158

E TO WIRE	ITE	8 7 6 5	Signal Name	-
ne WIR	or WH	10 9	Color of Wire	BR
Connector Name WIRE TO WIRE	Connector Color WHITE	南 H.S.	Terminal No. Wire	4
•	•	·		

			_						
19	Connector Name   CARGO LAMP SWITCH	ITE		اااا	2 3 5		Signal Name	I	I
. M149	me CA	lor WF		4			Color of Wire	BB	P/L
Connector No.	Connector Na	Connector Color WHITE		僵	H.S.		Terminal No. Wire	2	4

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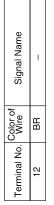
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Connector No. M202	Connector Name   WIRE TO WIRE	Connector Color   BROWN				11   10   9   8   7   11   6   5   4   3   2   1	24 23 22 21 20 19 18 17 16 15 14 13 12	
				[	_	- 0	<sub>∞</sub>	1

Signal Name	1
Color of Wire	BR
Terminal No.	12

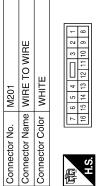
Signal Name	I	
Color of Wire	BR	
Terminal No.	12	
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M256	A/T DEVICE	BLACK	
Connector No.	Connector Name   A/T DEVICE	Connector Color	



•	-
R/L	BR
11	12
	11   R/L   -





Sig		
Color of Wire	R/L	
Terminal No.	6	

Signal Name	I	
Color of Wire	B/L	
Terminal No. Wire	6	

M254	e WIRE TO V	BROWN
Connector No.	Connector Name WIRE TO W	Connector Color



2 1

Signal Nam	ILL	GND	
Color of Wire	B/L	BR	
Terminal No.	-	2	



Connector No.



Signal Name	_	_
Color of Wire	B/L	BR
Terminal No.	2	9

Connector No.	M205	
Connector Name   DVD PLAYER	DVD PLAYER	
Connector Color   GRAY	GRAY	
Ą		
Ę	2 4 6 8 10 12 14 16	

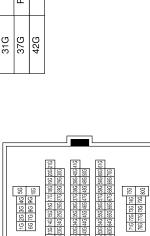


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Signal Name	+771	MS 9NILH9I7	
Color of Wire	BR	R/L	
Terminal No.	10	12	

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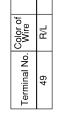
Signal Name	TAIL LAMP	GND (PWR)	
Color of Wire	B/L	В	
Terminal No.	25	69	

(1 141 1)		Signal Name	ı	I	_	ı	
נ		Color of Wire	Μ	M/B	Г	R/L	٥
9		Terminal No. Wire	5/	10G	31G	37G	Ç



Connector No.	E123
Connector Name	Connector Name   IPDM E/R (INTELLIGENT   POWER DISTRIBUTION   MODULE ENGINE ROOM
Connector Color BROWN	BROWN





ILLUMINATION

Signal Name

Connector No.	E152
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color	WHITE



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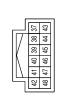
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E122	Connector Name   IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	WHITE
Connector No.	Connector Name	Connector Color WHITE



Signal Name	GND (SIG	CAN-H	CAN-L	
Color of Wire	В	_	А	
Terminal No.	38	39	40	



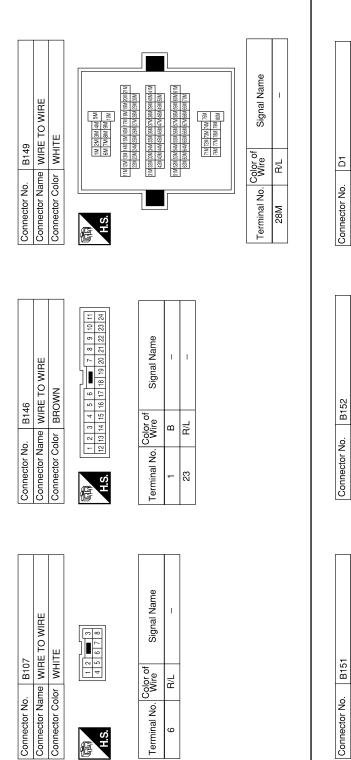




Signal Name

Color of Wire R/L

Terminal No. 9



	E TO WIRE	NMC	1 2 3 4 5 6	Signal Name	ı
10	e WIR	ır BRC	2 3 4 1 4 4 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	color of Wire	R/L
Connector No. D1	Connector Name WIRE TO WIRE	Connector Color BROWN	H.S.	Terminal No. Wire	22
2	Connector Name NAVI CONTROL UNIT	ITE	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 43 45 47 49 51 53 55 57 59 61 68 65 67 69 71	Signal Name	П
B152	ne NAV	or WHI	1 53 55 5	color of Wire	R/L
Connector No. B152	Connector Nar	Connector Color WHITE	H.S. 42 48 50 1 49 50 1 40 1 40 1 40 1 40 1 40 1 40 1 40 1	Terminal No. Wire	61
			39 86		
	CONTROL UNIT	3	20 22 24 26 30 32 34 36 38 38 31 31 35 37 37 39 31 31 35 37 37 39 31 31 35 37 37 39 31 31 35 37 37 39 31 31 35 37 37 39 31 31 35 37 37 39 31 31 35 37 37 39 31 31 35 37 37 39 31 31 35 37 37 37 37 37 37 37 37 37 37 37 37 37	Signal Name	GND
B151	le NAVI	r WHIT	41 11 11 11 11 11 11 11 11 11 11 11 11 1	color of Wire	BR
Connector No. B151	Connector Name NAVI CONTROL	Connector Color WHITE	H.S. 1 3 5 7 9 11 12	Terminal No. Wire	-

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Connector No. D10	Connector Name DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)	WN Connector Color WHITE	3 4 <u> </u>	Signal Name Terminal No. Wire Signal Name	- 8 BR
Connector No. D10	MITH WITH POSI	Connector Color BROWN	8 1 8	Color of Wire	BH

Signal Name

Terminal No. Wire

BB

Connector Name WIRE TO WIRE Connector Color WHITE

D3

Connector No.

Connector No.         R1         Connector No.         R6         Connector Name         R10           Connector Name         WIRE TO WIRE         Connector Name         ROOM LAMP           Connector Color         WHITE         Connector Color         WHITE		_		
Connector No. R6 Connector Name WIRE TO WIRE Connector Color WHITE		R10	ROOM LAMP	WHITE
VIRE		Connector No.	Connector Name	Connector Color
VIRE				
VIRE		R6	WIRE TO WIRE	WHITE
VIRE		Connector No.	Connector Name	Connector Color
Connector No. R1 Connector Name WIRE TO WIRE Connector Color WHITE	'			
Connector No. Connector Name Connector Color		R1	WIRE TO WIRE	WHITE
		Connector No.	Connector Name	Connector Color

IE TO WIRE	ITE	14 13 12 11 10 9 8	Signal Name	I	I	I	I
ne WIR	or WHITE	7 6 5 14 15 14	Color of Wire	BR	B/L	BR	B/L
Connector Name   WIRE TO WIRE	Connector Color	H.S.	Terminal No.	11	13	15	16

Signal Name

Color of Wire

Terminal No.

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					1
Signal Name	ı	I	ı	ļ	
olor of Wire	R/L	BR	R/L	BB	

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5		ı
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Signal Name	I	_	I	I
Color of Wire	B/L	BR	B/L	BR
Terminal No.	7	6	11	16

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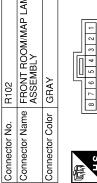
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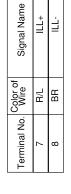
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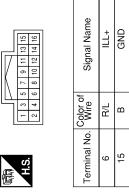
Signal Name	-	_
Color of Wire	BR	B/L
Terminal No.	2	4

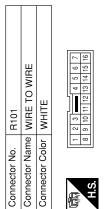


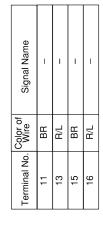












Connector No.	ž			R201	Ξ									
Connector Name WIRE TO WIRE	Ra	E	_	₹	뿠	۲	>	∦	Щ					
Connector Color BROWN	ပိ	ō	Н.	۱ ۳	Ó	₹	_							
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Signal Name	-	_
Color of Wire	В	R/L
Terminal No.	1	23

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# **BCM (BODY CONTROL MODULE)**

< ECU DIAGNOSIS >		
ECU DIAGNOSIS		А
BCM (BODY CONTROL MODULE)		
Description	INFOID:0000000001621695	В
REFERENCE VALUES FOR BCM For BCM reference values, refer to BCS-35, "Reference Value".		С
TERMINAL LAYOUT FOR BCM For the terminal layout for the BCM, refer to BCS-37, "Terminal Layout".		D
PHYSICAL VALUES FOR BCM For physical values for the BCM, refer to BCS-37, "Physical Values".		Е
WIRING DIAGRAM - BCM For the BCM wiring diagram, refer to <u>BCS-43, "Wiring Diagram"</u> .		F
DTC INSPECTION PRIORITY CHART - BCM For the BCM DTC inspection priority chart, refer to BCS-46, "DTC Inspection Priority Chart".		G
DTC INDEX - BCM For the BCM DTC index, refer to BCS-47, "DTC Index".		Н
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# **INTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

# INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

#### **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 of the following lamps do not turn ON  Room lamp (if equipped)  Front room/map lamp assembly (if equipped)  Personal lamp 2nd (if equipped)  Vanity lamps (if equipped)  Front step lamps  Rear step lamps (if equipped)  Puddle lamps (if equipped)  Foot lamps (if equipped)	Harness between BCM and each interior room lamp     BCM	Battery saver output/power supply circuit. Refer to INL-16, "Description".
Some or all of the following interior room lamps do not turn ON/OFF  Room lamp (if equipped)  Puddle lamps (if equipped)  Front room/map lamp assembly (if equipped)  Personal lamp 2nd row (if equipped)	Harness between BCM and each interior room lamp     BCM	Interior room lamp control circuit. Refer to INL-18, "Description".
Some or all of the following lamps do not turn ON/OFF  • Front step lamps  • Rear step lamps (if equipped)  • Foot lamps (if equipped)	Harness between BCM and each step lamp     BCM	Step lamp circuit. Refer to INL-21, "Description".
Cargo lamps do not turn ON/OFF	<ul><li>Harness between BCM and cargo lamp relay</li><li>BCM</li><li>Cargo lamp relay</li></ul>	Cargo lamp relay. Refer to INL-23, "Description".
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to INL-13, "BATTERY SAVER: CONSULT-III Function".
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to INL-13, "BATTERY SAVER: CONSULT-III Function".

# **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 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.

## 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.
- 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**

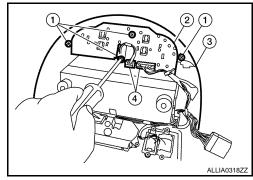
# INTERIOR ROOM LAMP

#### Removal and Installation

#### MAP LAMP

#### Removal

- 1. Disconnect the negative battery terminal.
- 2. Remove overhead console (3). Refer to <a href="INT-21">INT-21</a>, "Removal and Installation".
- 3. Disconnect connectors (4) and remove the map lamp screws (1), then remove map lamp (2) from overhead console.



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#### Installation

Installation is in the reverse order of removal.

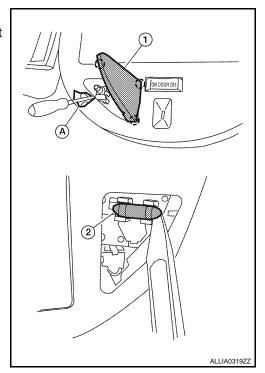
#### **Bulb Replacement**

- 1. Disconnect the negative battery terminal.
- 2. Using a suitable tool (A), remove map lamp lens (1).
- 3. Release one side of the bulb (2) from the tab, then pull straight downward to remove.

Map lamp bulb : 12V - 8W

#### **CAUTION:**

Wrap a cloth around tool to protect the housing and lens.



#### VANITY MIRROR LAMP

#### Remova

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to <a href="INT-21">INT-21</a>, "Removal and Installation".

#### Installation

Installation is in the reverse order of removal.

**Bulb Replacement** 

## **INTERIOR ROOM LAMP**

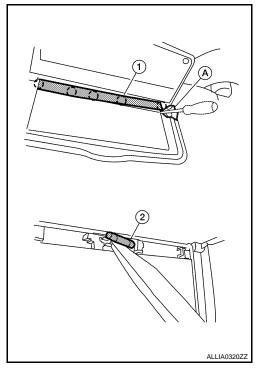
### < ON-VEHICLE REPAIR >

- 1. Disconnect the negative battery cable.
- 2. Using a suitable tool (A), release the tabs and remove the vanity mirror lamp lens (1).
- 3. Release one side of the bulb (2) from the tab, then pull staight out to remove.

Vanity mirror lamp bulb : 12V - 1.8W

#### **CAUTION:**

Wrap a cloth around tool to protect the housing and lens.



**GLOVE BOX LAMP** 

Removal

- 1. Remove lower instrument panel RH and glove box. Refer to <a href="IP-15">IP-15</a>, "Removal and Installation".
- 2. Rotate glove box lamp socket and rotate counterclockwise to release from steering member.

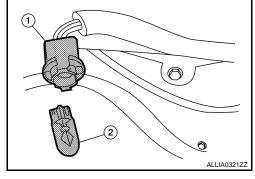
Installation

Installation is in the reverse order of removal.

**Bulb Replacement** 

- 1. Disconnect the negative battery terminal.
- Remove lower instrument panel RH and glove box. Refer to <u>IP-15, "Removal and Installation"</u>.
- Pull bulb (2) straight out from glove box lamp socket (1) to remove.

Glove box lamp bulb : 12V - 3.4W



STEP LAMP

Removal

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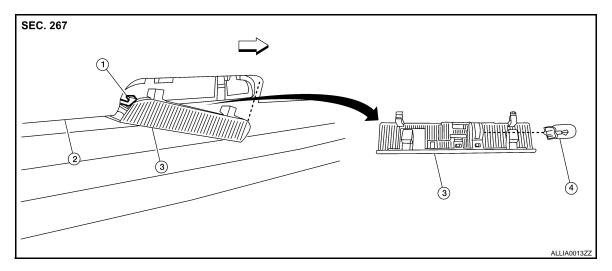
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- 1. Step lamp connector
- 2. Door finisher
- 4. Step lamp bulb

3. Step lamp lens/socket

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

#### Installation

Installation is in the reverse order of removal.

#### **Bulb Replacement**

- 1. Disconnect the negative battery cable.
- 2. Remove the step lamp lens/socket.
- 3. Pull the bulb straight out to remove.

Step lamp bulb : 12V - 3.8W

# PERSONAL LAMP (if equipped)

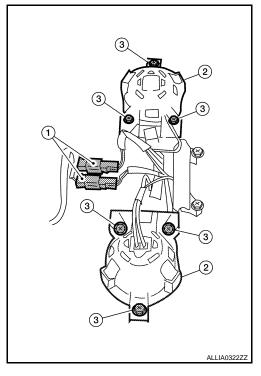
#### Removal

Disconnect the negative battery terminal.

## INTERIOR ROOM LAMP

#### < ON-VEHICLE REPAIR >

- Remove overhead console. Refer to I<u>INT-21, "Removal and Installation".</u>
- 3. Remove personal lamp (3) screws.
- 4. Disconnect personal lamp electrical connectors (1), then remove personal lamp (2) from overhead console.



Installation

Installation is in the reverse order of removal.

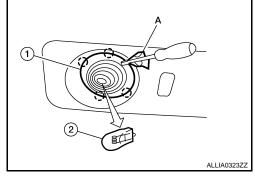
#### **Bulb Replacement**

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

Personal lamp bulb : 12V - 6W

#### **CAUTION:**

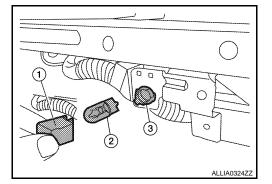
Wrap a cloth around tool to protect the housing and lens.



#### **FOOTWELL LAMP**

Removal

- Disconnect the negative battery terminal.
- 2. Rotate footwell lamp socket (3) counterclockwise from bracket.



Installation

Installation is in the reverse order of removal.

**Bulb Replacement** 

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**INL-61** 

# **INTERIOR ROOM LAMP**

## < ON-VEHICLE REPAIR >

- 1. Disconnect the negative battery terminal.
- 2. Release the pawls and remove bulb shield (1) from bracket.
- 3. Pull bulb (2) straight out from footwell lamp socket (3) to remove.

Footwell lamp bulb : 12V - 3.4W

#### Removal and Installation

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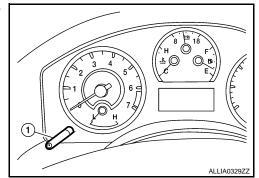
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#### **ILLUMINATION CONTROL SWITCH**

#### Removal

The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to <a href="MWI-72">MWI-72</a>, "Removal and Installation".



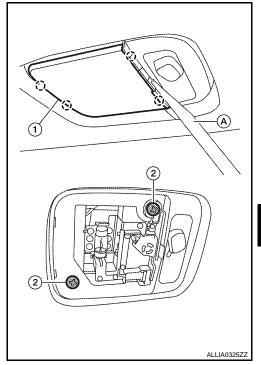
#### Installation

Installation is in the reverse order of removal.

## CARGO LAMP (if equipped)

#### Removal

- 1. Disconnect the negative battery terminal.
- 2. Using a suitable tool (A), release the pawls and remove the cargo lamp lens (1).
- 3. Remove cargo lamp screws (2).
- 4. Disconnect the connector, then remove cargo lamp.



#### Installation

Installation is in the reverse order of removal.

#### **Bulb Replacement**

1. Disconnect the negative battery terminal.

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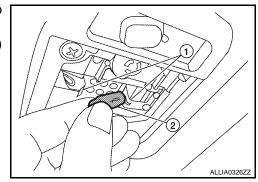
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**INL-63** 

#### < ON-VEHICLE REPAIR >

- 2. Using a suitable tool, release the pawls and remove the cargo lamp lens.
- 3. Release the cargo lamp bulb retainers (1), then pull bulb (2) straight out to remove.

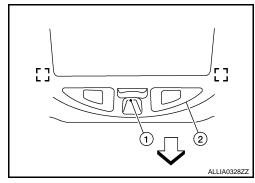
Cargo lamp bulb : 12V - 8W



## CONSOLE ILLUMINATION LAMP (if equipped)

#### Removal

The console illumination lamp (1) is replaced as part of the map lamp assembly (2). Refer to INTERIOR ROOM LAMP.

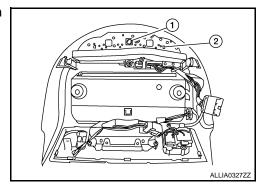


#### Installation

Installation is in the reverse order of removal.

#### **Bulb Replacement**

- 1. Disconnect the negative battery terminal.
- 2. Remove overhead console. Refer to INTERIOR HEADLINER.
- 3. Rotate console illumination lamp bulb (1) counterclockwise, then pull straight out away from map lamp assembly (2) to remove.



# **BULB SPECIFICATIONS**

< SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS)

# **BULB SPECIFICATIONS**

# Interior Lamp/Illumination

Item	Wattage (W)*
Map Lamp	8
Vanity mirror lamp	1.8
Glove box lamp	3.4
Step lamp	3.8
Personal lamp	6
Footwell lamp	3.4
Cargo lamp	8
Console illumination lamp	-

<sup>\*:</sup> Always check with the Parts Department for the latest parts information.

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