SECTION INTERIOR LIGHTING SYSTEM

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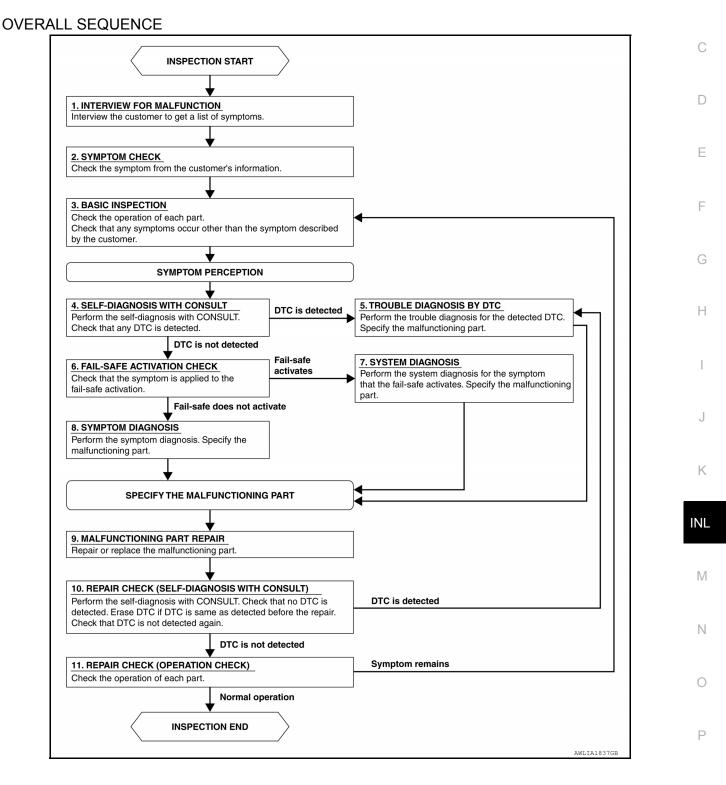
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BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

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

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

Is any DTC detected?

YES >> GO TO 5

NO >> GO TO 6

5.TROUBLE DIAGNOSIS BY DTC

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

>> GO TO 9

6.FAIL-SAFE ACTIVATION CHECK

Determine if the customer's concern is related to fail-safe activation.

Does the fail-safe activate? YES >> GO TO 7

NO >> GO TO 8

7.SYSTEM DIAGNOSIS

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

>> GO TO 9

8.SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9

9.MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10

10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)

Perform the self-diagnosis with CONSULT. Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5

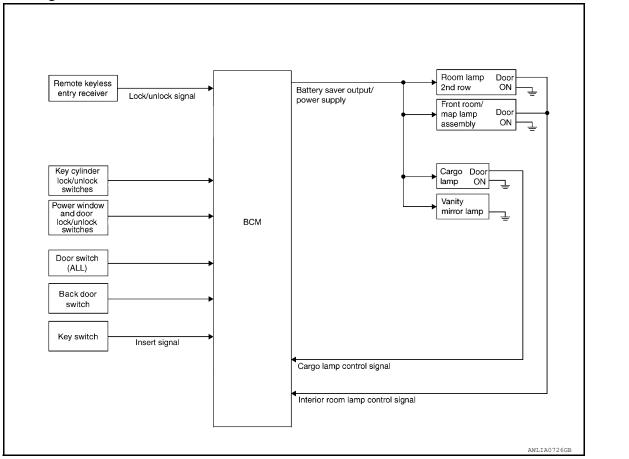
DIACNOSIS AND DEDAID WORKELOW

DIAGNOSIS AND REPAIR WORKFLOW	
< BASIC INSPECTION >	
NO >> GO TO 11	
11.REPAIR CHECK (OPERATION CHECK)	А
Check the operation of each part.	
Does it operate normally?	В
YES >> Inspection End NO >> GO TO 3	
NO >> GO TO 3	
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< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

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OUTLINE

- Front room/map lamp and room lamp 2nd row are controlled by the interior room lamp timer control function of the BCM.
- Cargo lamp is controlled by the cargo lamp control function of the BCM.
- The timer control functions of the BCM activate based on inputs from the remote keyless entry receiver, the key cylinder lock/unlock switches, the door switches, the key switch and the power window and door lock/ unlock switches.

ROOM LAMP TIMER OPERATION

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

- When the front door LH is unlocked [with main power window and door lock/unlock switch, or front door lock assembly LH (key cylinder switch)].
- When a door opens \rightarrow closes.

Timer control is cancelled under the following conditions.

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

Interior lamp operational settings can be changed with the CONSULT.

INTERIOR LAMP BATTERY SAVER CONTROL

INTERIOR ROOM LAMP CONTROL SYSTEM

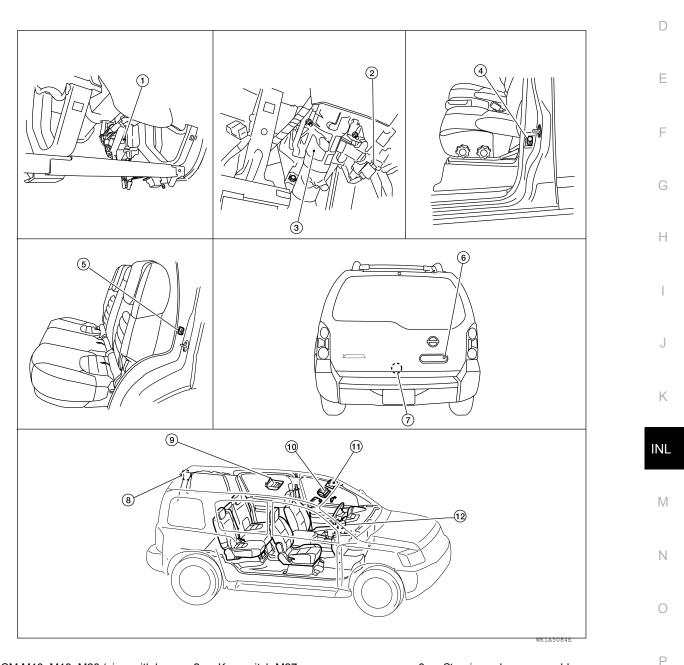
< SYSTEM DESCRIPTION >

If an interior lamp is left ON and does not turn OFF even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery 15 minutes after the ignition switch is turned OFF. The BCM controls 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 a main power window and door lock/unlock switch, or when the front door lock assembly LH (key cylinder switch) is locked or unlocked
- a door is opened or closed

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

Component Parts Location



- 1. BCM M18, M19, M20 (view with lower 2. instrument panel LH removed)
- 4. Front door switch LH B8 RH B108

5. Rear door switch LH B18 RH B116

Key switch M27

3. Steering column assembly

6. Back door key cylinder switch D505

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INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

- 7. Back door switch D502
- 10. Front room/map lamp assembly R9 (with front map lamps)
- 8. Cargo lamp R11
- 11. Vanity lamp (with vanity lamps) LH B80 RH B81
- 9. Room lamp 2nd row R12
- 12. Ignition keyhole illumination M150 (if equipped)

INFOID:000000007360713

Part name	Description
BCM	Provides power and ground and controls timer functions for the interior room lamps and cargo lamp.
Key switch	Provides key in ignition status to the BCM.
Door switches	Provides door OPEN/CLOSED status to the BCM.
Back door switch	Provides back door OPEN/CLOSED status to the BCM.
Main power window and door lock/unlock switch	Dravides deer lack/unlack position quiteb status to the DOM
Power window and door lock/unlock switch RH	Provides door lock/unlock position switch status to the BCM.
Front door lock assembly LH (key cylinder switch)	Descrides describely velocity status to the DOM
Back door key cylinder switch	Provides door lock/unlock status to the BCM.

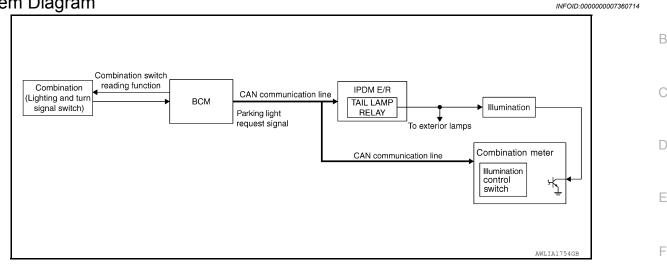
Component Description

ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

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

BATTERY SAVER CONTROL

When the combination switch (lighting and turn signal switch) is in the 1ST or 2ND position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 15 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position lamps are turned off after a 30 second delay. When the combination switch (lighting and turn signal switch) is turned from OFF to 1ST or 2ND position after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

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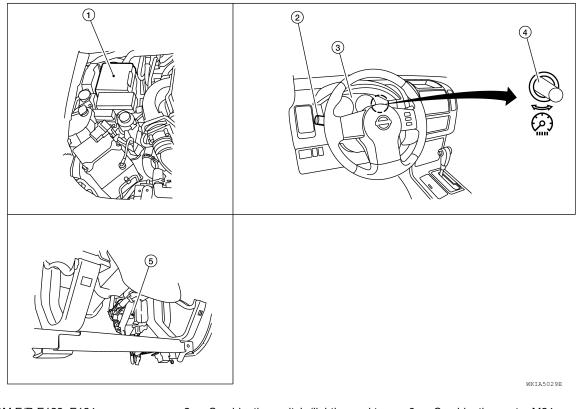
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ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location



IPDM E/R E122, E124 1.

Component Description

4.

- Illumination control switch (built into 5. combination meter)
- 2. Combination switch (lighting and turn 3. Combination meter M24 signal switch) M28

 - BCM M18, M20 (view with lower instrument panel LH removed)

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Part name	Description
BCM	The BCM monitors the lighting switch position with the combina- tion switch reading function. The BCM requests, via CAN com- munication, 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 re- ceived 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 (lighting and turn signal switch)	The combination switch (lighting and turn signal switch) provides input to the BCM about the lighting switch position.

< SYSTEM DESCRIPTION > DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description	
Ecu Identification	The BCM part number is displayed.	
Self Diagnostic Result	The BCM self diagnostic results are displayed.	
Data Monitor	The BCM input/output data is displayed in real time.	
Active Test	The BCM activates outputs to test components.	-
Work support	The settings for BCM functions can be changed.	
Configuration	The vehicle specification can be read and saved.The vehicle specification can be written when replacing BCM.	
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.	

SYSTEM APPLICATION

BCM can perform the following functions.

		Direct Diagnostic Mode						- -	
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr	- H I J
Door lock	DOOR LOCK			×	×	×			_
Rear window defogger	REAR DEFOGGER			×	×				K
Warning chime	BUZZER			×	×				
Interior room lamp timer	INT LAMP			×	×	×			INL
Remote keyless entry system	MULTI REMOTE ENT			×	×	×			
Exterior lamp	HEAD LAMP			×	×	×			-
Wiper and washer	WIPER			×	×	×			M
Turn signal and hazard warning lamps	FLASHER			×	×				-
Air conditioner	AIR CONDITIONER			×					_
Combination switch	COMB SW			×					- N
BCM	BCM	×	×			×	×	×	-
Immobilizer	IMMU		×	×	×				0
Interior room lamp battery saver	BATTERY SAVER			×	×	×			-
Back door open	TRUNK			×	×				_
Vehicle security system	THEFT ALM			×	×	×			P
RAP system	RETAINED PWR			×	×	×			-
Signal buffer system	SIGNAL BUFFER			×	×				-
TPMS	AIR PRESSURE MONITOR		×	×	×	×			_
Panic alarm system	PANIC ALARM				×				-

INT LAMP

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000007830447

DATA MONITOR

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

ACTIVE TEST

Test Item	Description
IGN ILLUM	This test is able to check ignition keyhole illumination operation [Off/On].
INT LAMP	This test is able to check interior room lamp operation [Off/On].
LUGGAGE LAMP TEST	This test is able to check cargo lamp operation [Off/On].

WORK SUPPORT

Support Item	Set	ting	Description		
	Off		Interior room lamp timer function OFF.		
SET I/L D-UNLCK INTCON	On*		Interior room lamp timer function ON.		
	MODE7	0 sec.			
	MODE6	5 sec.			
	MODE5	4 sec.			
ROOM LAMP ON TIME SET	MODE4	3 sec.	Sets the interior room lamp gradual brightening time.		
	MODE3	2 sec.			
	MODE2*	1 sec.			
	MODE1	0.5 sec.			
	MODE7	0 sec.			
	MODE6	5 sec.			
	MODE5	4 sec.			
ROOM LAMP OFF TIME SET	MODE4	3 sec.	Sets the interior room lamp gradual dimming time.		
	MODE3	2 sec.			
	MODE2*	1 sec.			
	MODE1	0.5 sec.			

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

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DATA MONITOR

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

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting		Description	
ROOM LAMP TIMER SET	MODE2	60 min	Sets the interior room lamp battery saver timer operating time.	J
	MODE1* 15 min		Sets the interior room ramp battery saver timer operating time.	_

*: Initial setting

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< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS POWER SUPPLY AND GROUND CIRCUIT BCM

BCM : Diagnosis Procedure

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Regarding Wiring Diagram information, refer to BCS-44, "Wiring Diagram".

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
57	Pottony newer supply	21 (10A)
70	Battery power supply	G (50A)
11	Ignition ACC or ON	4 (10A)
38	Ignition ON or START	1 (10A)

Is the fuse blown?

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

NO >> GO TO 2

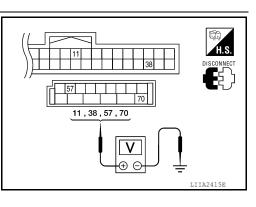
2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect BCM.

3. Check voltage between BCM harness connector and ground.

			1		
Connector	onnector (+) (-) Power source		Power	Condition	Voltage (V) (Ap-
Conneotor			Condition	prox.)	
M18	11	Ground	ACC Ignition power ACC or supply ON Battery		Battery voltage
	38	Ground	lgnition power supply	Ignition switch ON or START	Battery voltage
M20	57	Ground	Battery power supply	lgnition switch OFF	Battery voltage
WZU	70	Ground	Battery power supply	lgnition switch OFF	Battery voltage



Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

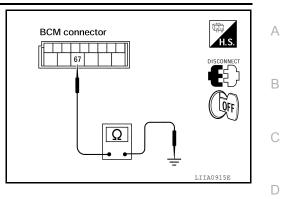
Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M20	67		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description

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

Component Function Check

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

- 1. Turn ignition switch ON.
- 2. Turn each interior room lamp ON.
- Front room/map lamp assembly (if equipped)
- Vanity lamps (if equipped)
- Cargo lamp
- Room lamp 2nd row
- 3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 4. While operating the test item, check that each interior room lamp turns ON/OFF.

OFF : Interior room lamp OFF

ON : Interior room lamp ON

Is the inspection result normal?

- YES >> Battery saver output/power supply circuit is normal.
- NO >> Refer to <u>INL-16, "Diagnosis Procedure"</u>.

Diagnosis Procedure

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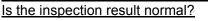
Regarding Wiring Diagram information, refer to INL-35. "Wiring Diagram".

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

CONSULT

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

(+)		(-)	Test item	Voltage
Connector	Terminal	(-)	BATTERY SAVER	Voltage
M20	56	Ground	OFF	0V
IVIZO	50	Giounu	ON	Battery voltage



YES >> GO TO 2

NO >> Replace BCM after making sure the battery saver output/power supply circuit is not shorted to voltage. Refer to <u>BCS-50, "Removal and Installation"</u>.

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect the following connectors.
- BCM M20
- Ignition keyhole illumination (if equipped)
- Front room/map lamp assembly (if equipped)
- Vanity lamp LH (if equipped)

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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- Vanity lamp RH (if equipped)
- Cargo lamp
- Room lamp 2nd row

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

BCM Interior room lamp		BCM		р		Continuity
Connector	Terminal	Connector		Terminal	Continuity	
		Ignition keyhole illumination (if equipped)	M150	1		
	Front	Front room/map lamp assembly (if equipped)	R9	1	-	
	Vanity lamp LH (if equipped)	B80	1			
M20	56	Vanity lamp RH (if equipped)	B81	1	Yes	
		Cargo lamp	R11	2		
		Room lamp 2nd row	R12	2		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

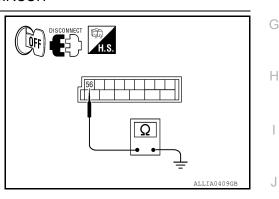
3. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity	between	BCM	connector	M20	terminal	56	and	
ground.								

Connector	Terminal	_	Continuity
M20	56	Ground	No

Is the inspection result normal?

- YES >> Replace the interior room lamp. Refer to <u>INL-58</u>, <u>"Removal and Installation"</u>.
- NO >> Repair the harness or connectors.



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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

Controls the following interior room lamps (ground side) by PWM signal

- · Front room/map lamp assembly (if equipped)
- Room lamp 2nd row

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.

- Battery saver output/power supply
- Front room/map lamp bulbs (if equipped)
- Room lamp 2nd row bulb
- **1.**CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT

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

OFF : Interior room lamp gradual dimming

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal.

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

Diagnosis Procedure

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Regarding Wiring Diagram information, refer to INL-35, "Wiring Diagram".

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT

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

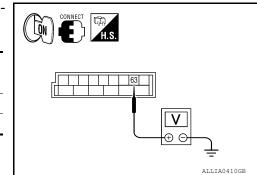
(+)	()	INT LAMP	Voltage	
Connector	Terminal	(-)		voltage	
M20	63	Ground	ON	0V	
IVI20	05	Ground	OFF	Battery voltage	

Is the inspection result normal?

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

Fixed OFF>> GO TO 2

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT



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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, room lamp 2nd row connector and front room/map lamp connector.
- 3. Check continuity between BCM connector M20 (A) terminal 63 and interior room lamp connectors.

Term	inal	Terminal		Continuity	
Connector	Terminal	Component	Connector	Terminal	Continuity
M20 (A)	63	Room lamp 2nd row	R12 (B)	1	Yes
W20 (A)	00	Front room/map lamp	R9 (C)	2	105

Is the inspection result normal?

- YES >> Check interior room lamp for an open. If OK, replace the BCM. Refer to <u>BCS-50, "Removal and Installation"</u>. If NG, replace the interior room lamp. Refer to <u>INL-58, "Removal and Installation"</u>.
- NO >> Repair the harness or connectors.

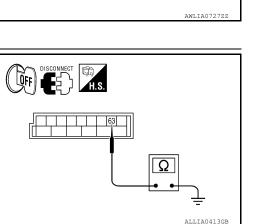
3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M20, room lamp 2nd row connector and front room/map lamp connector.
- Check continuity between BCM connector M20 terminal 63 and ground.

Connector	Terminal		Continuity
M20	63	Ground	No

Is the inspection result normal?

- YES >> Check interior room lamp for a short circuit. If OK, replace the BCM. Refer to <u>BCS-50</u>, "Removal and
- Installation["]. If NG, replace the interior room lamp. Refer to <u>INL-58, "Removal and Installation"</u>. NO >> Repair the harness or connectors.



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< DTC/CIRCUIT DIAGNOSIS >

CARGO LAMP CONTROL CIRCUIT

Description

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

Component Function Check

CAUTION:

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

- Battery saver output/power supply
- Cargo lamp bulb

1. CHECK CARGO LAMP OPERATION

CONSULT

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

ON : Cargo lamp ON

OFF : Cargo lamp OFF

Is the inspection result normal?

YES >> Cargo lamp circuit is normal. NO >> Refer to INL-20, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000007360730

Regarding Wiring Diagram information, refer to INL-35. "Wiring Diagram".

1.CHECK CARGO LAMP OUTPUT

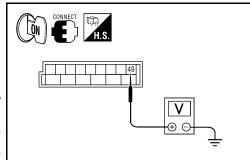
CONSULT

- 1. Turn ignition switch ON.
- Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check voltage between BCM connector M19 terminal 49 and ground.

Connector	Terminal	—	LUGGAGE LAMP TEST	Voltage
M19	M19 49 Grour		ON	0V
10113	49	Ground	OFF	Battery voltage

Is the inspection result normal?

YES >> Cargo lamp control circuit is operating normally. Fixed ON>>GO TO 3 Fixed OFF>> GO TO 2 **2.**CHECK CARGO LAMP OPEN CIRCUIT



INFOID:000000007360728

INFOID:000000007360729

Revision: December 2011

ALLIA04170

CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M19 and cargo lamp connector.
 Check continuity between BCM connector M19 (A) terminal 49
- and cargo lamp connector R11 (B) terminal 1.

B	BCM		Cargo lamp	
Connector	Terminal	Connector Terminal		Continuity
M19 (A)	49	R11 (B)	1	Yes

Is the inspection result normal?

YES >> Check cargo lamp for an open. If OK, replace BCM. Refer to <u>BCS-50, "Removal and Installation"</u>. If NG, replace cargo lamp. Refer to <u>INL-58,</u> <u>"Removal and Installation"</u>.

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NO >> Repair harness or connectors.

3.CHECK CARGO LAMP SHORT CIRCUIT

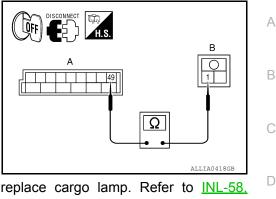
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M19 and cargo lamp connector.
- 3. Check continuity between BCM connector M19 terminal 49 and ground.

Connector	Terminal	—	Continuity
M19	49	Ground	No

Is the inspection result normal?

YES >> Check cargo lamp for a short circuit. If OK, replace BCM. Refer to <u>BCS-50, "Removal and Installation"</u>. If NG, replace cargo lamp. Refer to <u>INL-58, "Removal and</u> <u>Installation"</u>.

NO >> Repair harness or connectors.



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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description

Controls the ignition keyhole illumination (ground side) to turn the ignition keyhole illumination ON and OFF.

Component Function Check

CAUTION:

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

- Battery saver output/power supply circuit
- Ignition keyhole illumination bulb

1. CHECK IGNITION KEYHOLE ILLUMINATION OPERATION

CONSULT

- 1. Turn the ignition switch ON.
- 2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check that the ignition keyhole illumination turns ON/OFF

ON : Ignition keyhole illumination ON

OFF : Ignition keyhole illumination OFF

Is the inspection result normal?

YES >> Ignition keyhole illumination circuit is normal.

NO >> Refer to INL-22, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000007360733

Regarding Wiring Diagram information, refer to INL-35, "Wiring Diagram".

1. CHECK IGNITION KEYHOLE OUTPUT

CONSULT

- 1. Turn ignition switch ON.
- 2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check voltage between BCM connector M18 terminal 1 and ground.

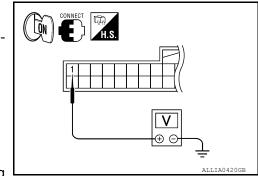
Connector	Terminal	—	IGN ILLUM	Voltage
M18	1	Ground	ON	0V
IVI TO	I	Ground	OFF	Battery voltage

Is the inspection result normal?

YES >> Ignition keyhole illumination control circuit is operating normally.

Fixed ON>>GO TO 3.

2.CHECK IGNITION KEYHOLE ILLUMINATION OPEN CIRCUIT



INFOID:000000007360731

INFOID:000000007360732

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
- 3. Check continuity between BCM connector M18 (A) terminal 1 and ignition keyhole illumination connector M150 (B) terminal 2.

B	CM	Ignition keyho	ole illumination	Continuity
Connector	Terminal	Connector Terminal		Continuity
M18 (A)	1	M150 (B)	2	Yes

Is the inspection result normal?

- YES >> Check the ignition keyhole illumination for an open. If OK, replace the BCM. Refer to BCS-50. "Removal and Installation". If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.

$\mathbf{3}$. CHECK IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

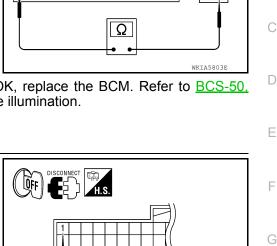
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
- 3. Check continuity between BCM connector M18 terminal 1 and ground.

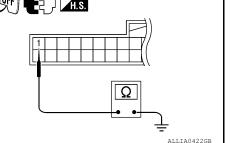
Connector	Terminal	_	Continuity
M18	1	Ground	No

Is the inspection result normal?

YES >> Check the ignition keyhole illumination for a short circuit. If OK, replace the BCM. Refer to BCS-50, "Removal and Installation". If NG, replace ignition keyhole illumination.

NO >> Repair harness or connectors.







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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000007830450

NOTE:

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

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
	Ignition switch OFF or ON	Off
ACC ON SW	Ignition switch ACC	On
AIR COND SW	A/C switch OFF	Off
AIR COND SW	A/C switch ON	On
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm ² , psi
BACK DOOR SW	Back door closed	Off
BACK DOOR SW	Back door opened	On
	Brake pedal released	Off
BRAKE SW	Brake pedal applied	On
BUCKLE SW	Seat belt buckle unfastened	Off
BUCKLE SW	Seat belt buckle fastened	On
BUZZER	Buzzer in combination meter OFF	Off
DUZZER	Buzzer in combination meter ON	On
CARGO LAMP SW	Cargo lamp switch OFF	Off
CARGO LAIMF SW	Cargo lamp switch ON	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the LOCK side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	On
DOOR SW-AS	Front door RH closed	Off
DOOR SW-AS	Front door RH opened	On
DOOR SW-DR	Front door LH closed	Off
DOOR SW-DR	Front door LH opened	On
	Rear door LH closed	Off
DOOR SW-RL	Rear door LH opened	On
	Rear door RH closed	Off
DOOR SW-RR	Rear door RH opened	On
	Blower motor fan switch OFF	Off
FAN ON SIG	Blower motor fan switch ON	On

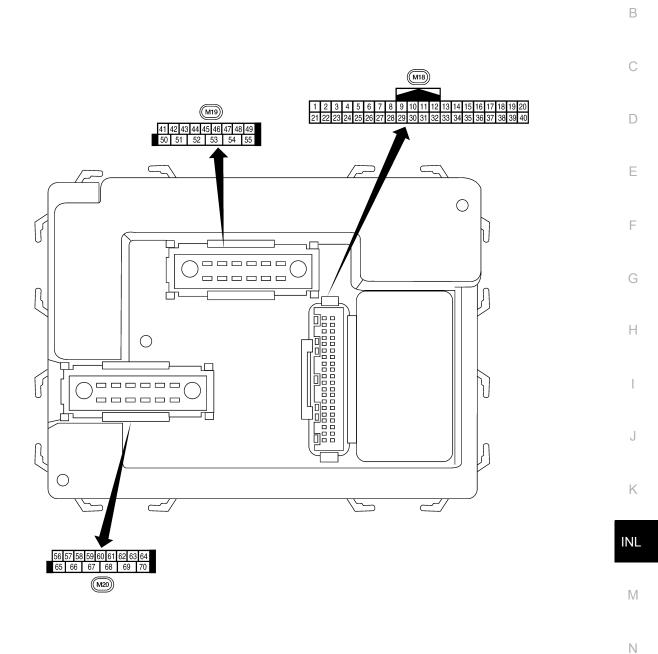
Monitor Item	Condition	Value/Status	
	Front fog lamp switch OFF	Off	_
FR FOG SW	Front fog lamp switch ON	On	
	Front washer switch OFF	Off	_
FR WASHER SW	Front washer switch ON	On	_
	Front wiper switch OFF	Off	
FR WIPER LOW	Front wiper switch LO	On	_
	Front wiper switch OFF	Off	
FR WIPER HI	Front wiper switch HI	On	-
	Front wiper switch OFF	Off	
FR WIPER INT	Front wiper switch INT	On	
	Any position other than front wiper stop position	Off	-
FR WIPER STOP	Front wiper stop position	On	-
	When hazard switch is not pressed	Off	-
HAZARD SW	When hazard switch is pressed	On	
	Headlamp switch OFF	Off	-
HEAD LAMP SW 1	Headlamp switch 1st	On	-
	Headlamp switch OFF	Off	_
HEAD LAMP SW 2	Headlamp switch 1st	On	
	High beam switch OFF	Off	
HI BEAM SW	High beam switch HI	On	-
ID REGST FL1	ID registration of front left tire incomplete	YET	
	ID registration of front left tire complete	DONE	_
	ID registration of front right tire incomplete	YET	_
ID REGST FR1	ID registration of front right tire complete	DONE	_
	ID registration of rear left tire incomplete	YET	
ID REGST RL1	ID registration of rear left tire complete	DONE	
	ID registration of rear right tire incomplete	YET	
ID REGST RR1	ID registration of rear right tire complete	DONE	- 1
	Ignition switch OFF or ACC	Off	-
IGN ON SW	Ignition switch ON	On	-
	Ignition switch OFF or ACC	Off	_
IGN SW CAN	Ignition switch ON	On	_
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	_
	Door key cylinder LOCK position	Off	_
KEY CYL LK-SW	Door key cylinder other than LOCK position	On	_
	Door key cylinder UNLOCK position	Off	—
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On	_
	Mechanical key is removed from key cylinder	Off	-
KEY ON SW	Mechanical key is inserted to key cylinder	On	—
	LOCK button of key fob is not pressed	Off	—
KEYLESS LOCK	LOCK button of key fob is pressed	On	—
	PANIC button of key fob is not pressed	Off	
KEYLESS PANIC	PANIC button of key fob is pressed	On	-

Monitor Item	Condition	Value/Status
KEYLESS UNLOCK	UNLOCK button of key fob is not pressed	Off
RETLESS UNLOCK	UNLOCK button of key fob is pressed	On
LIGHT SW 1ST	Lighting switch OFF	Off
	Lighting switch 1st	On
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On
PASSING SW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
RR WIPER STOP	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading
	Low tire pressure warning lamp in combination meter OFF	Off
WARNING LAMP	Low tire pressure warning lamp in combination meter ON	On

< ECU DIAGNOSIS INFORMATION >

Terminal Layout

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Physical Values

LIIA2443E

INFOID:000000007830452

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	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
1	BR	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
	BIX	nation	Output		Door is unlocked (SW ON)	0V
2	Ρ	Combination switch input 5	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 4 0
3	SB	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 4 0 • • 5 ms SKIA5292E
4	V	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 4 2 0 • • • 5 ms SKIA5291E
5	L R	Combination switch input 2 Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 4 0 • • 5ms SKIA5292E
		Front door lock as-			ON (open, 2nd turn)	Momentary 1.5V
7	GR	sembly LH (key cylin- der switch) and back door key cylinder switch (unlock)	Input	OFF	OFF (closed)	0V
		Front door lock as-			ON (open)	Momentary 1.5V
8	SB	sembly LH (key cylin- der switch) and back door key cylinder switch (lock)	Input	OFF	OFF (closed)	0V
0	Y	Rear window defogger	ogger Input C		Rear window defogger switch ON	0V
9	Ţ	switch		Input ON	Rear window defogger switch OFF	5V
11	G/B	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	LG	Front door switch RH	Input	OFF	ON (open)	0V
12	LG		input	UFF	OFF (closed)	Battery voltage

	Wire		Signal		Measuring condition	Reference value or waveform	
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)	
13	L	Rear door switch RH	Input	OFF	ON (open)	0V	
15	L	Real door Switch RH	Input	OFF	OFF (closed)	Battery voltage	
15	W	Tire pressure warning check connector	Input	OFF	_	5V	
18	BR	Remote keyless entry receiver (ground)	Output	OFF	_	0V	
19	V	Remote keyless entry receiver (power sup- ply)	Output	OFF	Ignition switch OFF	(V) 6 2 0 • • • 50 ms LIIA1893E	
		Remote keyless entry			Stand-by (keyfob buttons re- leased)	(V) 6 4 2 0 • • • 50 ms LIIA1894E	
20	G	receiver (signal)	Input	it OFF	When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2 0 •••50 ms LIIA1895E	
21	GR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF \rightarrow ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.	
23	G	Security indicator lamp	Output	OFF	Goes OFF \rightarrow illuminates (Every 2.4 seconds)	Battery voltage \rightarrow 0V	
25	BR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF \rightarrow ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.	
27	W	Compressor ON sig-	Innut	ON	A/C switch OFF	5V	
21	VV	nal	Input	UN	A/C switch ON	0V	
28	R	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage	
20	<u>л</u>		Input		Front blower motor ON	0V	
29	G	Hazard switch	Input	OFF	ON	0V	
20	5		input	UFF	OFF	5V	
31	R	Off-road lamps switch	Input	ON	ON	0V	
01		On-road lamps switch	mput		OFF	5V	

	Wire		Signal	Measuring condition			Reference value or waveform			
Terminal	color	Signal name	input/ output	Ignition switch	Operation	or condition	(Approx.)			
32	0	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4		(V) 64 0 •••5ms SKIA5291E			
33	GR	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4		(V) 4 0 • 5ms SKIA5292E			
34	G	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4		(V) 6 4 0 			
35	BR	Combination switch output 2			Lighting, turn, wiper OFF Wiper dial position 4					
36	LG	Combination switch output 1	Output	ON			(V) 6 2 0 • • 5 ms skta5292E			
		Key switch and key			Key inserted		Battery voltage			
37	В	lock solenoid	Input	OFF	Key inserted		0V			
38	W/R	Ignition switch (ON)	Input	ON	-	_	Battery voltage			
39	L	CAN-H	_		-	_	_			
40	Р	CAN-L	—	—	-	_	_			
42	L	Off-road lamps	Output	ON	Off-road	ON	0V			
				_	lamps switch	OFF	Battery voltage			
43	Y	Back door switch	Input	OFF	ON (open)		0V			
					OFF (closed)	n (rear winar	Battery voltage			
	0	O Rear wiper auto stop Input switch	Input ON		Rise up position (rear wiper arm on stopper)		0V			
				ut ON				A Position (full position)	clockwise stop	Battery voltage
44					Forward sweep (counterclock- wise direction) B Position (full counterclock- wise stop position)		Fluctuating			
							0V			
					Reverse swee rection)	p (clockwise di-	Fluctuating			

Territ 1	Wire	<u>Oinnal</u>	Signal		Measuring condition	- Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
45	V	Lock switch	Input	OFF	ON (lock)	0V
40	v	LOCK SWILCH	Input	UFF	OFF	Battery voltage
46	LG	Unlock switch	Input	OFF	ON (unlock)	0V
40	LG	OTHOCK SWITCH	input	OFF	OFF	Battery voltage
47	GR	Front door switch LH	Input	OFF	ON (open)	0V
47	OIX	Tront door switch Eff	mput	OFF (closed) Battery voltage		Battery voltage
48	Р	Rear door switch LH	Input	OFF	ON (open)	0V
-10			mput	OIT	OFF (closed)	Battery voltage
49	L	Cargo lamp	Output	OFF	Any door open (ON)	0V
45	L	Cargo lamp	Output	OIT	All doors closed (OFF)	Battery voltage
50	W	Off-road lamps relay	Output	ON	Off-road ON	0V
50	vv		Output		lamps switch OFF	Battery voltage
51	0	Trailer turn signal (right)	Output	ON	Turn right ON	(V) 15 10 5 0 •••• 500 ms 5 5 5 5 5 5 5 5 5 5 5 5 5
52	LG	Trailer turn signal (left)	Output	ON	Turn left ON	(V) 15 10 5 0 5 5 5 5 5 5 5 5 5 5 5 5 5
55	W	Rear wiper output cir-	Output		OFF	0
55	vv	cuit 1	Output	ON	ON	Battery voltage
56	R/Y	Battery saver output	Output	OFF	15 minutes after ignition switch is turned OFF	0V
				ON	_	Battery voltage
57	R/Y	Battery power supply	Input	OFF		Battery voltage
50		Front door lock as-	0	055	OFF (neutral)	0V
59	GR	sembly LH actuator (unlock)	Output	OFF	ON (unlock)	Battery voltage
60	LG	Turn signal (left)	Output	ON	Turn left ON	(V) 15 10 5 0

< ECU DIAGNOSIS INFORMATION >

	Wire		Signal		Measuring con	dition	Reference value or waveform							
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition		(Approx.)							
61	G	Turn signal (right)	Output	ON	Turn right ON		(V) 15 10 50 500 ms SKIA3009J							
63	BR	Interior room/map	Output	OFF	Any door	ON (open)	0V							
03	DR	lamp	Output	OFF	switch	OFF (closed)	Battery voltage							
65	V	All door lock actuators	Output OFF		Output	Output	Output	Output	OFF	OFF (neutral)		OFF (neutral)		0V
	v	(lock)	Output	011	ON (lock)		Battery voltage							
66	L	Front door lock actua- tor RH, rear door lock actuators LH/RH and back door lock actua- tor (unlock)	Output	OFF	OFF (neutral) ON (unlock)		0V Battery voltage							
67	В	Ground	Input	ON	-	_	0V							
					Ignition switch	ON	Battery voltage							
		O Power window power Outp supply (RAP)	Output —							Within 45 seco tion switch OF	0	Battery voltage		
68	0			—	More than 45 seconds after ig- nition switch OFF		0V							
				When front door LH or RH is open or power window timer operates		0V								
70	W	Battery power supply	Input	OFF	-	_	Battery voltage							

Fail Safe

INFOID:000000007830453

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

Display contents of CONSULT	Fail-safe	Cancellation
U1000: CAN COMM CIRCUIT	Inhibit engine cranking	When the BCM re-establishes communication with the other mod- ules.

DTC Inspection Priority Chart

INFOID:000000007830454

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
3	C1729: VHCL SPEED SIG ERR C1735: IGNITION SIGNAL	A
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR	В
	 C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR 	C
	 C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR 	D
4	 C1715: [CHECKSUM ERR] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR 	E
	 C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1720: [CODE ERR] FL C1721: [CODE ERR] FR C1722: [CODE ERR] FR 	F
	 C1722: [CODE ERR] RR C1723: [CODE ERR] RL C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR 	G
	 C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL 	F

DTC Index

NOTE:

Details of time display

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

CONSULT display	Fail-safe	Low tire pressure warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_
U1000: CAN COMM CIRCUIT	Х	_	<u>BCS-27</u>
32190: NATS ANTENNA AMP	—	_	<u>SEC-18</u>
32191: DIFFERENCE OF KEY	_	_	<u>SEC-21</u>
32192: ID DISCORD BCM-ECM	—	_	<u>SEC-22</u>
2193: CHAIN OF BCM-ECM	—	_	<u>SEC-24</u>
:1708: [NO DATA] FL	_	Х	<u>WT-14</u>
1709: [NO DATA] FR	—	Х	<u>WT-14</u>
1710: [NO DATA] RR	_	Х	<u>WT-14</u>
1711: [NO DATA] RL	_	Х	<u>WT-14</u>
1712: [CHECKSUM ERR] FL	—	X	<u>WT-16</u>
1713: [CHECKSUM ERR] FR	—	Х	<u>WT-16</u>
1714: [CHECKSUM ERR] RR	—	X	<u>WT-16</u>
1715: [CHECKSUM ERR] RL	—	Х	<u>WT-16</u>

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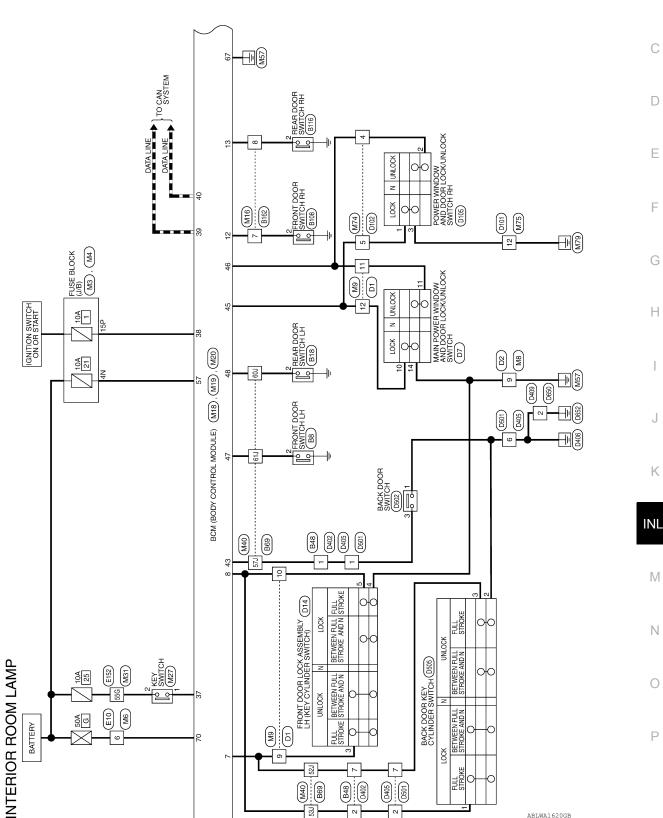
Revision: December 2011

CONSULT display	Fail-safe	Low tire pressure warning lamp ON	Reference page
C1716: [PRESSDATA ERR] FL	—	Х	<u>WT-18</u>
C1717: [PRESSDATA ERR] FR	—	Х	<u>WT-18</u>
C1718: [PRESSDATA ERR] RR	—	Х	<u>WT-18</u>
C1719: [PRESSDATA ERR] RL	_	Х	<u>WT-18</u>
C1720: [CODE ERR] FL	_	Х	<u>WT-16</u>
C1721: [CODE ERR] FR	—	Х	<u>WT-16</u>
C1722: [CODE ERR] RR	_	Х	<u>WT-16</u>
C1723: [CODE ERR] RL	—	Х	<u>WT-16</u>
C1724: [BATT VOLT LOW] FL	—	Х	<u>WT-16</u>
C1725: [BATT VOLT LOW] FR	_	Х	<u>WT-16</u>
C1726: [BATT VOLT LOW] RR	—	Х	<u>WT-16</u>
C1727: [BATT VOLT LOW] RL	—	Х	<u>WT-16</u>
C1729: VHCL SPEED SIG ERR	—	Х	<u>WT-20</u>
C1735: IGNITION SIGNAL	<u> </u>	Х	<u>WT-21</u>

WIRING DIAGRAM

INTERIOR ROOM LAMP

Wiring Diagram



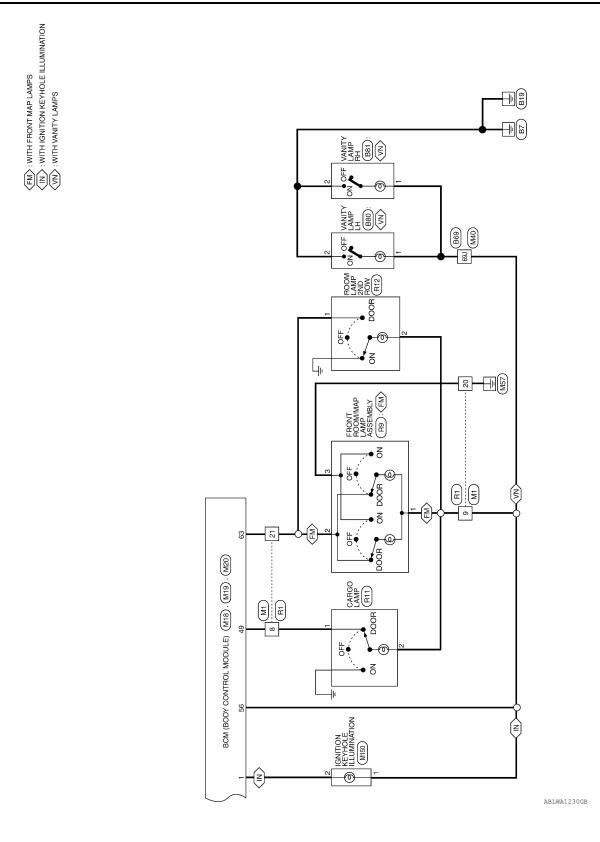
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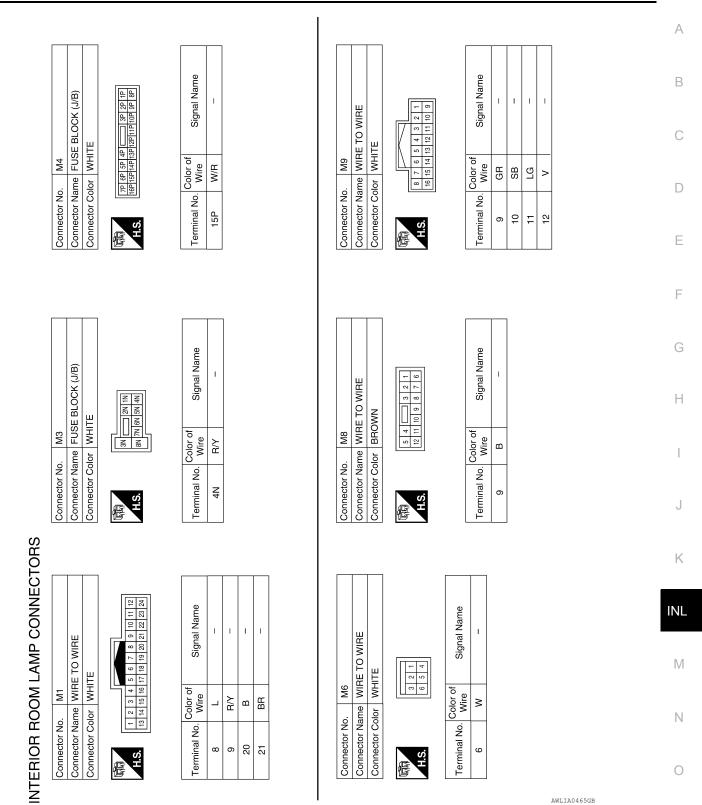
INTERIOR ROOM LAMP

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Revision: December 2011

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Connector No.	lo. M16 Jame WIBF	Connector No. M16 Connector Name WIRE TO WIRE	0	Connector No.			Termir	Terminal No.	Color of Wire	Signal Name
tor C	Connector Color WHITE	TE	<u>)</u>				-	12	ГG	DOOR SW (AS)
			0	Connector Color	lor WHITE	TE	-	13	L	DOOR SW (RR)
		R	ľ	[3	37	В	KEY SW
	6 5	4 3 2 1	<u>lf</u>	E			ĉ	38	W/R	IGN SW
	12 11	10 9 8 7		H.S.	Ľ		Υ Γ	39	_	CAN-H
				1 2 3 4 5	6 7 8 9	10 11 12 13 14 15 16 17 18 19 20		40	٩	CAN-L
				21 22 23 24 25	26 27 28 29	30 31 32 33 34 35 36 37 38 39	40			
Terminal No.	Color of Wire	Signal Name		Terminal No.	Color of Wire	Signal Name				
	ГG	I		-	BR	KEY RING OUTPUT				
ω	_	I		7	GR	KEY CYLINDER UNLOCK SW				
				ω	SB	KEY CYLINDER LOCK SW				
1										
Connector No.	Jo. M19	6	0	Connector No.	. M20		Conner	Connector No.	M27	
tor D	Connector Name BCN MO	BCM (BODY CONTROL MODULE)	0	Connector Name		BCM (BODY CONTROL MODULE)	Conner	ctor Nar	Connector Name KEY SWITCH	SWITCH F
tor C	Connector Color WHITE	HTE	0	Connector Color	lor BLACK	S			5	1
		-	Ľ				Æ		M	
	41 42 43 50 51	41 42 43 44 45 45 47 48 49 50 51 52 53 54 55		H.S.	56 57 58 59 65 66 6	56/57/58/59/60/61/62/63/64	H.S.		2	Ē
Terminal No.	Color of Wire	Signal Name	_ –	Terminal No.	Color of Wire	Signal Name	Termir	Terminal No.	Color of Wire	Signal Name
43	~	BACK DOOR SW		ц Ц	Ž	BATTERY SAVER		-	ш	I
45	>	CDL LOCK SW		00		OUTPUT		2	~	I
46	ГG	CDL UNLOCK SW		57	R/Y	BAT (FUSE)]			

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ROOM LAMP OUTPUT GND (POWER) BAT (F/L)

BB ≥

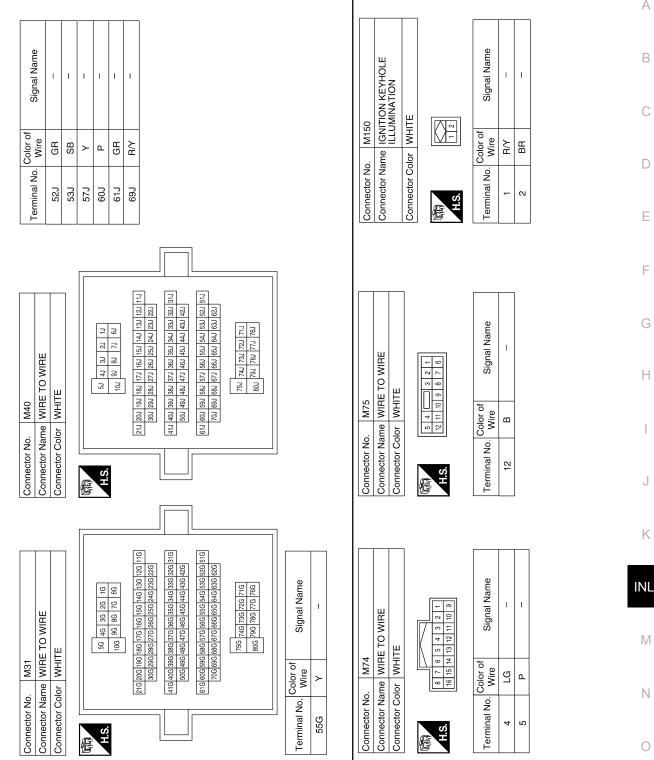
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DOOR SW (DR) DOOR SW (RL) CARGO LAMP OUTPUT

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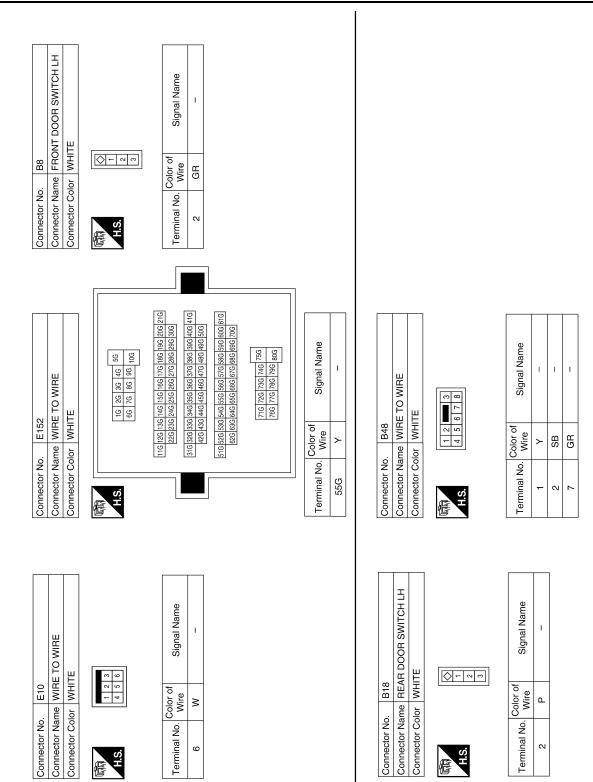
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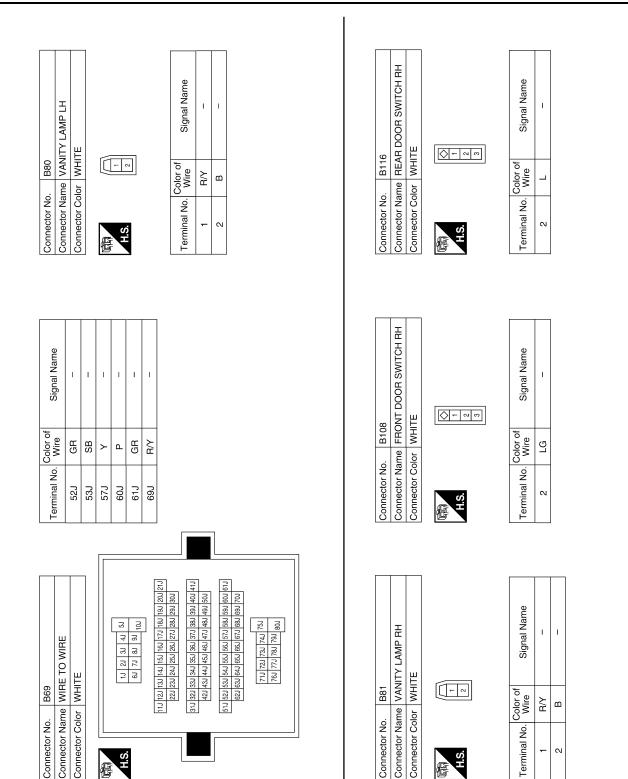
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INTERIOR ROOM LAMP

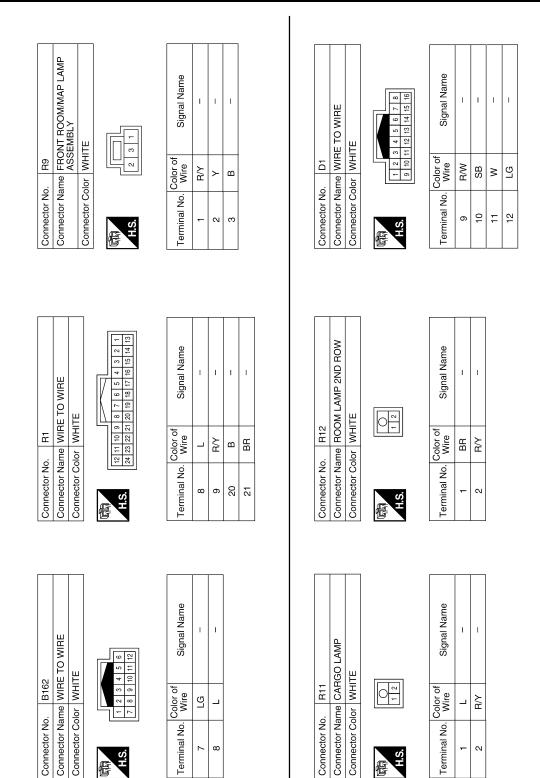
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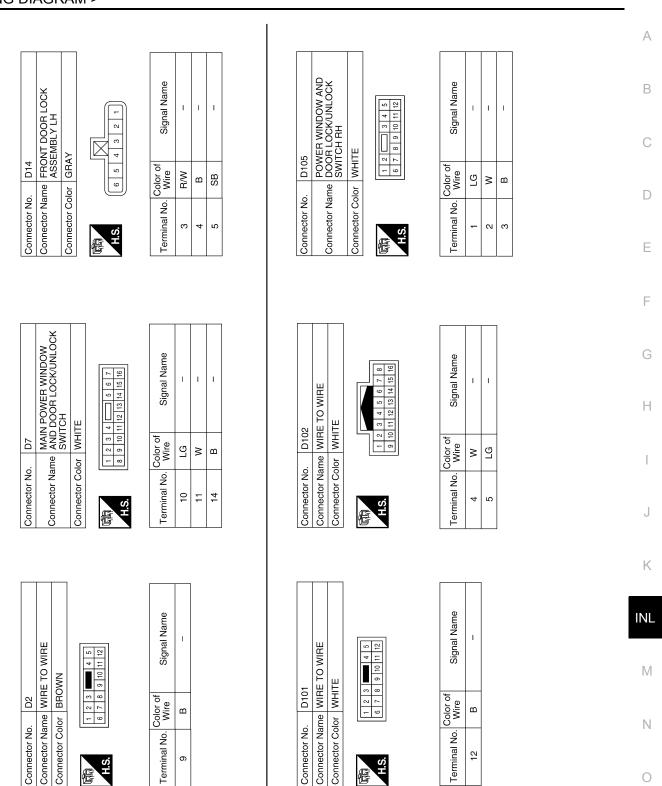
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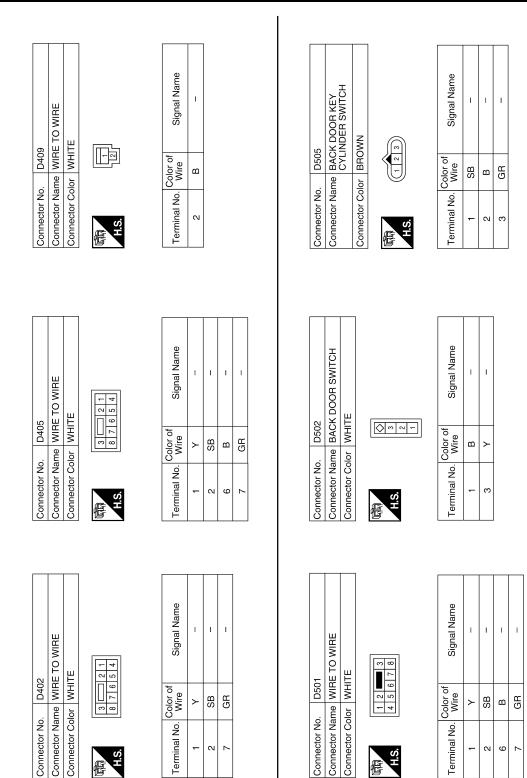
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Connector No. D650 Connector Name WIRE TO WIRE Connector Color WHITE MITE Image: Connector Color	Terminal No. Color of Wire Signal Name 2 B -	ABLIA1860GB

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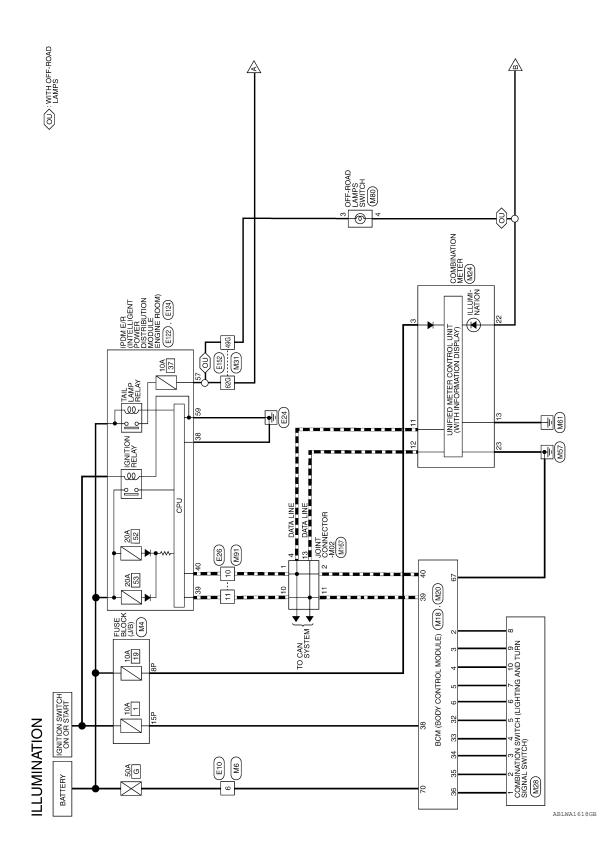
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ILLUMINATION

Wiring Diagram

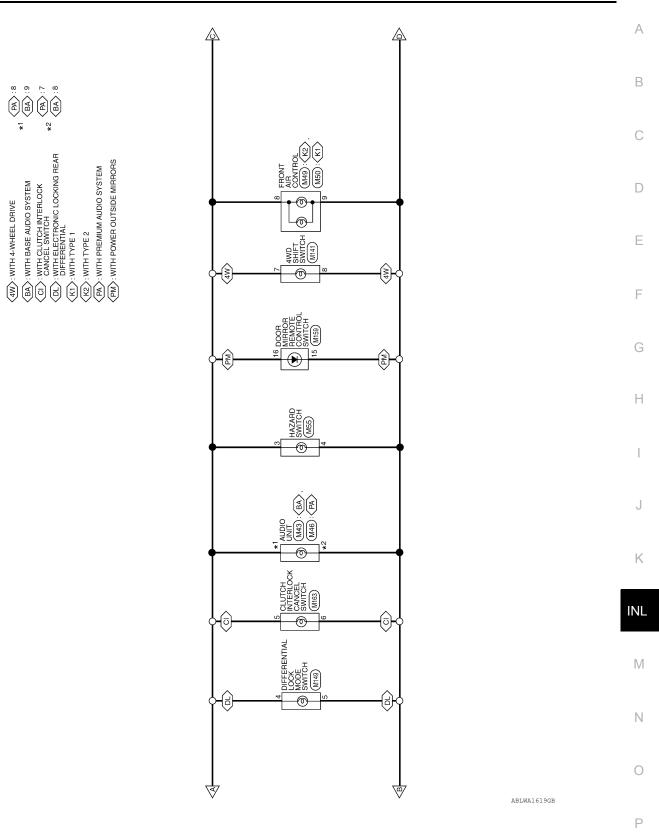
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ILLUMINATION

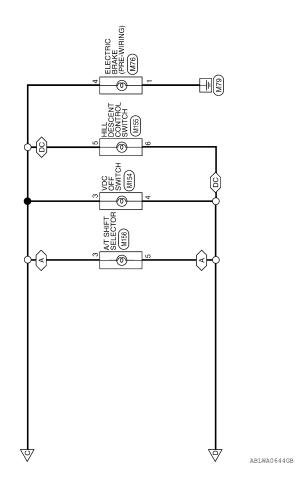
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ILLUMINATION CONNECTORS

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



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

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Color of Wire	Μ	
Terminal No.	9	
		Γ
Signal Name	T	

Color of Wire R/Y M/R

Terminal No.

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Signal Name

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

Signal Name

Color of Wire W/R _ ٩

Terminal No.

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CAN-H CAN-L IGN SW

	15	35
	14	34 35
	13	33
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	7	27
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2 3 4 5 6	0 2 8 9	10 11 12 13 14 15 16 17 18 19 20
23 24 25	28 29	32 33 34 35 36 37 38
Terminal No.	Color of Wire	Signal Name
2	٩	INPUT 5
3	SB	INPUT 4
4	>	INPUT 3
5	_	INPUT 2
6	н	INPUT 1
32	0	OUTPUT 5
33	GR	OUTPUT 4
34	σ	OUTPUT 3
35	BR	OUTPUT 2
36	ЪЛ	OUTPUT 1

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ILLUMINATION

01	Connector Name BCM (BODY CONTROL MODULE)	BLACK	66[57]58[59]60[61 [52]64] 65 66 67 68 69 70	
Connector No. M20	Connector Name B	Connector Color BI	际时 (1657) (1657	

	f Signal Name	GND (POWER)	BAT (F/L)
	Color o Wire	ш	N
Ņ.	Terminal No. Wire	67	70

Revision: December 2011

Connector No. M24 Connector No. M24 Connector Name Commector Name Connector Name Commector Name Connector Name Commector Name Connector Name Connector Name Connector Name Name Connector Name Name Connector Name Name Signal Name Connector Name Signal Name Connector Name Signal Name Signal Name Signal Name Connector Name Signal Name Signal Name Sign

ILLUMINATION

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	A
M50 FRONT AIR CONTROL (WITH TYPE 1) BLACK BLACK ILLUM (+) ILLUM (+) ILLUM (+) ILLUM (-)	В
M50 M50 M1H1 TYPI (WITH TYPI (WITH TYPI M50 M60 M80 M11 M80 M11	С
No. M50 Name FRONT Name FRONT Mane M50 No. M80 No. M80 BR G BR G BR BR	D
Connector No. Connector Name Connector Name Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. Connector Name 9 B B C Color 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E
	F
R CONTROL PE 2) Signal Name Signal Name GROUND ILL (TAIL)	G
M49 M49 FRONT AIR CONTROL (WITH TYPE 2) BLACK Image: Signal Name or of Signal Name a ILLUM (+) m76 ILLUM (+) M76 ILLUM (-) M76 Signal Name a GROUND a ILLUM (-) a ILLUM (-) a ILLUM (-)	Н
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Connector No. Connector Name Connector Name B B B Connector Name B B Connector Name Connector Name	J
	К
Connector No. M46 Connector Name AUDIO UNIT (WITH AUDIO SYSTEM) Connector Name AUDIO SYSTEM) Connector Name AUDIO SYSTEM) Connector Name AUDIO SYSTEM) Time Signal Name Time Signal Name Time Signal Name Time M55 Connector No. M55 Signal Name Terminal No. Terminal No. Color of Signal Name	INL
Connector Name Connector Name Connector Name ALA Connector Name ALA Connector Name REMIL Connector Name HAZAR Connector Name HAZAR	b 1
Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No	Ν
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< WIRING DIAGRAM >

Connector No. M149 Connector Name DIFFERENTIAL LOCK MODE Swittch Swittch Connector Color WHITE Image: Signal Struct Image: Signal Struct Image: Signal Struct Image: Signal Struct	Terminal No. Color of Wire Signal Name 4 R - 5 BR -	Connector No. M156 Connector Name AT SHIFT SELECTOR Connector Color WHITE Image: Connector Color WHITE	Terminal No.Color of WireSignal Name3R-5BR-
Connector No. M141 Connector Name 4WD SHIFT SWITCH Connector Color GRAY Image: Connector Color GRAY Image: Connector Color Image: Connector Color Image: Connector Color GRAY	Terminal No.Color of WireSignal Name7RLIGHT_SW8BRGND	Connector No. M155 Connector Name HILL DESCENT CONTROL SWITCH Connector Color WHITE	Terminal No.Color of WireSignal Name5R-6BR-
Connector No.M91Connector NameWIRE TO WIREConnector ColorWHITEMilte1Image: State of the s	Terminal No.Color of WireSignal Name10P-11L-	Connector No. M154 Connector Name VDC OFF SWITCH Connector Color GRAY	Terminal No.Color of WireSignal Name3R-4BR-

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ILLUMINATION

< WIRING DIAGRAM >

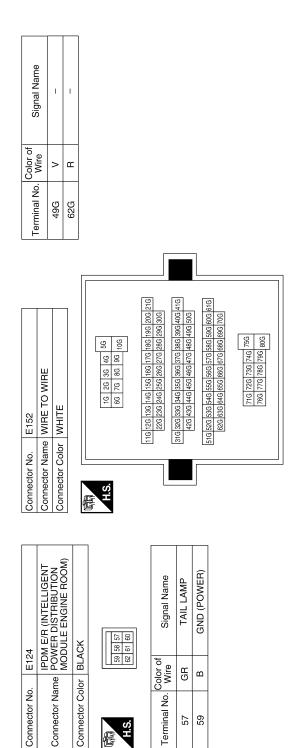
Revision: December 2011

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NNECTOR-M02	Signal Name	E122 PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE 42 41 40 38 37 42 41 40 43 43 41 43 43 41 43 44 43 44 43 45 41 4	Signal Name GND (SIGNAL) CAN-H CAN-L	В
M167 JOINT CO BLUE BLUE			Color of Wire Signation	C
Connector No. Connector Name Connector Color	Terminal No. 1 2 4 10 11 13	Connector No. Connector Name Connector Color	Terminal No. 38 39 40	E
				F
TCH	Signal Name		Signal Name	G
		Connector No. E26 Connector Name WIRE TO WIRE Connector Color WHITE Main Mile Mile Mile Mile Mile Mile Mile Mile Mile		Η
	BR BR	Connector No. E26 Connector Name WIRE T Connector Color WHITE Connector Color WHITE	No. Color of Wire P	I
Connector No. Connector Name Connector Color	Terminal No. 5 6	Connector No. Connector Nam Connector Colo	Terminal No. 10 11	J
				Κ
	Signal Name		Signal Name	INL
	R R R	or WIRE T WHITE T 4 5 6	Wire W	Ν
Connector No. Connector Name Connector Color	Terminal No. 7 15 16	Connector No. E10 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. 6	0

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< WIRING DIAGRAM >



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INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

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CAUTION:

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

Symptom	Possible cause	Inspection item
 All of the following lamps do not turn ON Front room/map lamp assembly (if equipped) Room lamp 2nd row Cargo room lamp Vanity mirror lamps (if equipped) Ignition keyhole illumination (if equipped) 	 Harness between BCM and each interior room lamp Harness between BCM and each door switch BCM 	Battery saver output/power supply circuit Refer to INL-16.
Some or all of the following interior room lamps do not turn ON/OFF	Harness between BCM and each door switch	Door switch circuit Refer to <u>DLK-24</u> .
Front room/map lamp assembly (if equipped)Room lamp 2nd row	Harness between BCM and each interior room lampBCM	Interior room lamp control circuit Refer to INL-18.
Cargo lamp does not turn ON/OFF	Harness between BCM and cargo lampBCM	Cargo lamp circuit Refer to <u>INL-20</u> .
Ignition keyhole illumination (if equipped) does not turn ON/OFF	Harness between BCM and igni- tion keyhole illuminationBCM	Ignition keyhole illumination circuit Refer to INL-22
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, "INT LAMP : CON-</u> <u>SULT Function (BCM - INT LAMP)"</u> .
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to <u>BCS-22</u> , " <u>BATTERY SAVER</u> <u>: CONSULT Function (BCM - BAT- TERY SAVER)"</u> .

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PRECAUTION PRECAUTIONS

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

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

Precaution for Work

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- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components.
- Water soluble dirt: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the dirty area.

Then rub with a soft and dry cloth.

- Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the dirty area.

Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

PREPARATION PREPARATION

Special Service Tool

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

Tool number (Kent-Moore No.)		Description	С
Tool name			
		Locating the noise	D
(J-39570) Chassis ear	8888AA		D
			E
	2 PP		F
	4 SIIAO993E	Repairing the cause of noise	
(J-43980)			
NISSAN Squeak and Rattle Kit			G
	SIIA0994E		Н
_		Removing trim components	
(J-46534) Trim tool set			I
			J
Commercial Service To		INFOID:0000000	007360746
			INL
Tool name		Description	
Engine ear		Locating the noise	
			Μ
			Ν
Power tools	SIIA0995E	Loosening bolts, nuts and screws	0
			P
	PTTR1407F		

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< REMOVAL AND INSTALLATION >

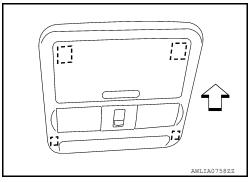
REMOVAL AND INSTALLATION INTERIOR ROOM LAMP

Removal and Installation

FRONT ROOM/MAP LAMP ASSEMBLY (IF EQUIPPED)

Removal

- Using a suitable tool, release the metal clips and drop the front room/map lamp assembly away from the headlining.
 Vehicle front
 - : Metal clip
- 2. Disconnect the harness connectors, then remove front room/ map lamp assembly.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

- 1. Using a suitable tool (A), remove front room/map lamp assembly lens (1).
 - <a>: Vehicle front

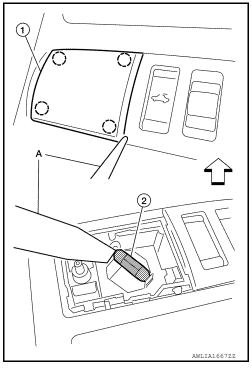
(): Pawl

CAUTION:

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

2. Release one side of the bulb (2) from the tab, then pull straight downward to remove.

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



ROOM LAMP 2ND ROW (IF EQUIPPED)

Removal

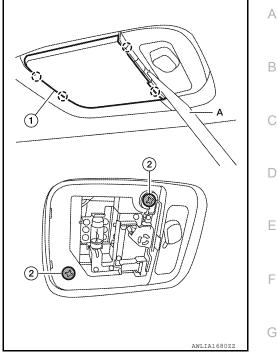
< REMOVAL AND INSTALLATION >

Using a suitable tool (A), release the pawls and remove the room lamp 2nd row lens (1).
 (_): Pawl

CAUTION:

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

- 2. Remove room lamp 2nd row screws (2).
- 3. Disconnect the connector, then remove room lamp 2nd row.



Installation

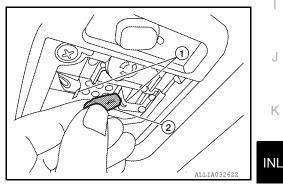
Installation is in the reverse order of removal.

Bulb Replacement

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

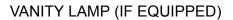
Room lamp 2nd row bulb

: 12V - 8W



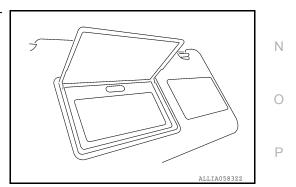
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Removal

The vanity lamp is replaced as part of the sun visor assembly. Refer to <u>INT-21, "Removal and Installation"</u>.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

The vanity lamp bulb is replaced as part of the sun visor assembly. Refer to <u>INT-21, "Removal and Installa-</u>tion".

< REMOVAL AND INSTALLATION >

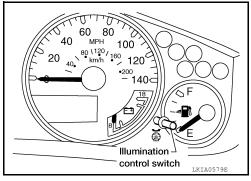
ILLUMINATION

Removal and Installation

ILLUMINATION CONTROL SWITCH

Removal

The illumination control switch is replaced as a part of the combination meter assembly. Refer to <u>MWI-83</u>, "<u>Removal and Installation</u>".



Installation

Installation is in the reverse order of removal.

CARGO LAMP

Removal

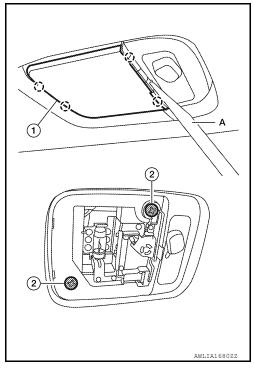
1. Using a suitable tool (A), release the pawls and remove the cargo lamp lens (1).

(_): Pawl

CAUTION:

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

- 2. Remove cargo lamp screws (2).
- 3. Disconnect the connector, then remove cargo lamp.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Using a suitable tool, release the pawls and remove the cargo lamp lens.

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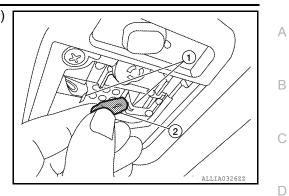
ILLUMINATION

< REMOVAL AND INSTALLATION >

2. Release the cargo lamp bulb retainers (1), then pull bulb (2) straight out to remove.

Cargo lamp bulb

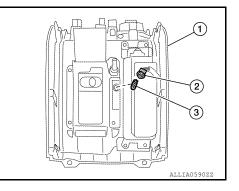
: 12V - 8W



A/T FINISHER LAMP

Removal

- 1. Remove A/T finisher from center console. Refer to IP-21, "Removal and Installation".
- 2. Rotate A/T finisher lamp socket (2) with bulb (3) counterclockwise, then pull away from finisher (1).



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Installation

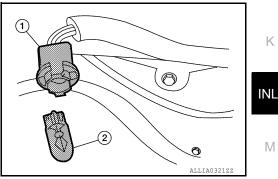
Installation is in the reverse order of removal.

Bulb Replacement

- 1. Remove A/T finisher from center console. Refer to IP-21, "Removal and Installation".
- Remove A/T finisher lamp socket (1), then pull bulb (2) straight out away from socket.

A/T finisher lamp bulb

: 12V - 3W



IGNITION KEYHOLE ILLUMINATION LAMP

Removal

- 1. Partially remove LH front door welt and position aside. Refer to INT-18, "Removal and Installation".
- 2. Remove front pillar lower finisher. Refer to INT-18, "Removal and Installation".
- 3. Remove instrument lower panel LH. Refer to IP-14, "Removal and Installation".
- 4. Partially remove the BCM and position aside.
- 5. Remove ignition keyhole illumination lamp.

Installation

Installation is in the reverse order of removal.

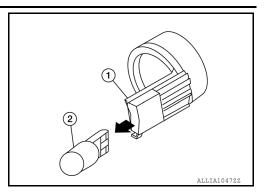
Bulb Replacement

1. Remove keyhole illumination lamp.

ILLUMINATION

< REMOVAL AND INSTALLATION >

 Pull bulb (2) straight out from keyhole illumination lamp socket (1) to remove.



BULB SPECIFICATIONS

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) BULB SPECIFICATIONS

Interior Lamp/Illumination

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Item	Wattage (W)*	
Front room/map lamp	8	
Room lamp 2nd row	8	
Vanity lamp	*	
Cargo lamp	8	
A/T finisher lamp	3	
Ignition Keyhole Illumination	*	

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

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