SECTION INTERIOR LIGHTING SYSTEM

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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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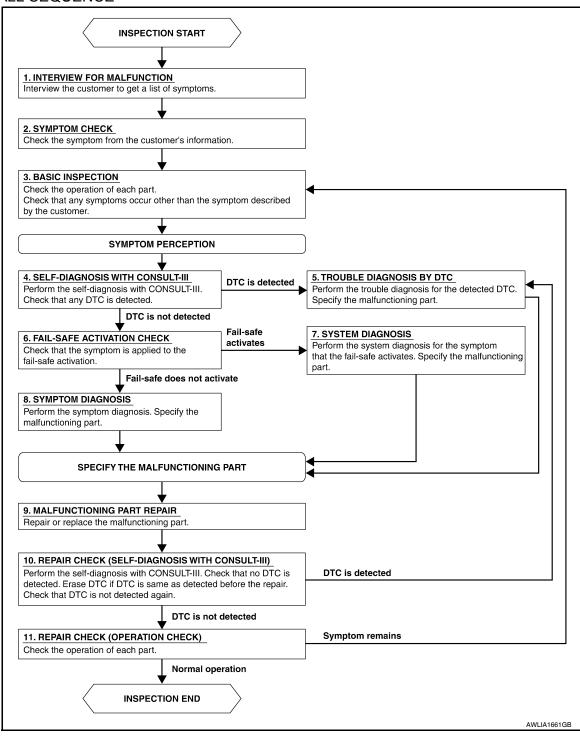
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OVERALL SEQUENCE



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 10

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

Perform the self-diagnosis with CONSULT-III. Verified 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

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

NO	>> GO TO 11		
11. RI	REPAIR CHECK (OPERATION CHECK))	
			

Check the operation of each part.

Does it operate normally?

YES >> Inspection End

NO >> GO TO 3

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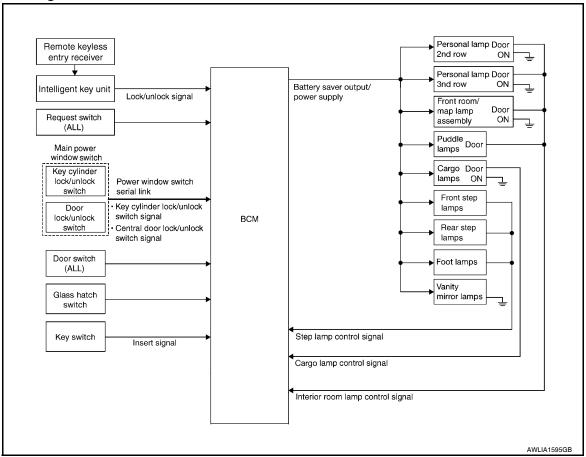
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FUNCTION DIAGNOSIS

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

INFOID:0000000005146715



System Description

INFOID:0000000005146716

OUTLINE

- Interior room lamps* are controlled by the interior room lamp timer control function of the BCM.
 *Front room/map lamps, personal lamp 2nd row, personal lamp 3rd row (when lamp switch is in DOOR position) and puddle lamps.
- · Cargo lamp is 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.

The timer control functions of the BCM activate based on inputs from the remote keyless entry receiver, the key cylinder lock/unlock switch, the door switches or the key switch and ignition knob 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.

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

Timer control is cancelled under the following conditions.

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

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

< FUNCTION DIAGNOSIS >

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.

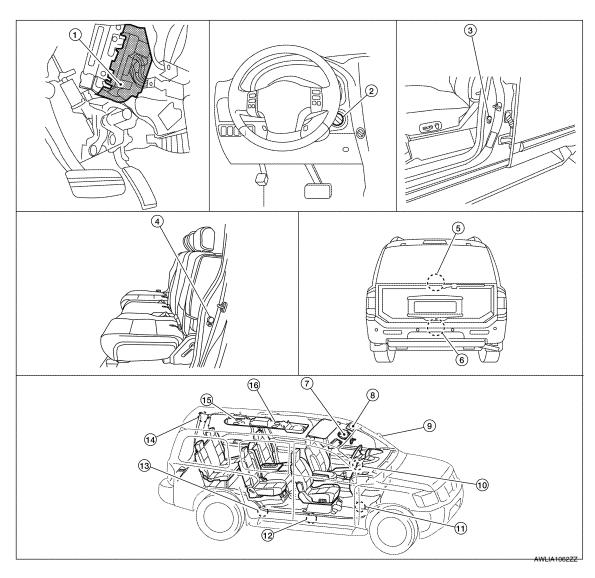
After the battery saver system turns the lamps OFF, the lamps will illuminate again when

- a signal is received from an Intelligent Key or 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 Intelligent Key is removed from or inserted into the ignition switch.

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

Component Parts Location

INFOID:0000000005146717



- BCM M18, M19, M20 (view with instru- 2. ment lower panel LH removed)
- Rear door switch LH B18 Rear door switch RH B116
- Front room/map lamp assembly R102 8.
- 10. Ignition keyhole illumination M150
- Key switch and ignition knob switch M12
- Glass hatch ajar switch D707
- Vanity lamp LH R3 Vanity lamp RH R8
- 11. Foot lamp LH M99 Foot lamp RH M100

- Front door switch LH B8 Front door switch RH B108
- Back door latch (door ajar switch) D503
- Door mirror (puddle lamp) LH D4 9. Door mirror (puddle lamp) RH D107
- Front step lamp LH D11 Front step lamp RH D109

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< FUNCTION DIAGNOSIS >

13. Rear step lamp LH D206 Rear step lamp RH D306 14. Cargo lamp B153

15. Personal lamp 3rd row R205

16. Personal lamp 2nd row R203

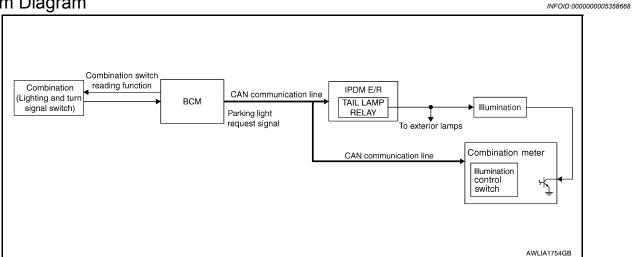
Component Description

INFOID:0000000005146718

Part name	Description	
BCM	Provides power and ground and controls timer functions for the interior room lamps, step lamps and cargo lamp.	
Key switch and ignition knob switch	Provides key in ignition status to the BCM.	
Door switches	Provides door OPEN/CLOSED status to the BCM.	
Glass hatch switch	Provides glass hatch OPEN/CLOSED status to the BCM.	
Back door latch	Provides back door OPEN/CLOSED status 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

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

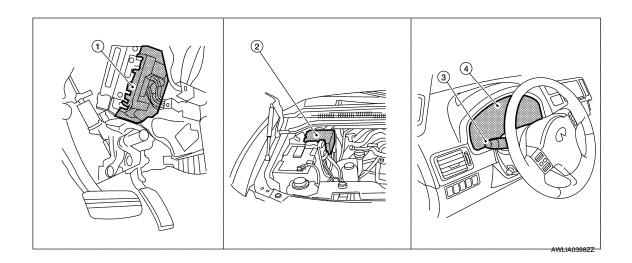
BATTERY SAVER CONTROL

When the combination switch (lighting and turn signal switch) is in the 1ST or 2ND position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 30 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the illumination lamps are turned off after a 30 second delay. When the combination switch (lighting and turn signal switch) is turned from OFF to 1ST or 2ND position (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:0000000005146721

INFOID:000000005358669



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ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

- BCM M18, M20 (view with instrument 2. IPDM E/R E122, E123, E124 lower panel LH removed)
 - Combination meter (illumination control switch) M23, M24

3. Combination switch (lighting and turn signal switch) M28

Component Description

INFOID:0000000005358670

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 (lighting and turn signal 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 (BCM - COMMON ITEM)

INFOID:0000000005356686

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APPLICATION ITEM

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

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by BCM. Refer to BCS-54, "DTC Index".
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	 Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

System	Sub system selection item	Diagnosis mode		
System	Sub system selection item	WORK SUPPORT	DATA MONITOR	ACTIVE TEST
BCM	BCM	×		
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
RAP (retained accessory power)	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
TPMS (tire pressure monitoring system)	AIR PRESSURE MONITOR	×	×	×
Vehicle security system	THEFT ALM	×	×	×
Panic alarm system	PANIC ALARM			×

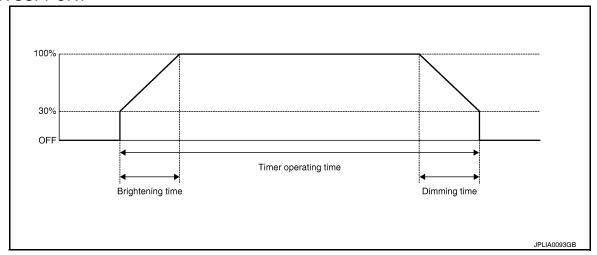
INT LAMP

< FUNCTION DIAGNOSIS >

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

INFOID:0000000005356687

WORK SUPPORT



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

^{* :} Initial setting

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [ON/OFF]	Ignition switch (ON) status judges from IGN signal (ignition power supply)
KEY ON SW [ON/OFF]	The switch status input from key switch
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]	The switch status input from back door switch
KEY CYL LK-SW [ON/OFF]	Lock switch status input from door lock and unlock switch
KEY CYL UN-SW [ON/OFF]	Lock switch status input from door lock and unlock switch

< FUNCTION DIAGNOSIS >

Monitor Item [Unit]	Description	
CDL LOCK SW [ON/OFF]	Lock switch status input from door lock and unlock switch	
CDL UNLOCK SW [ON/OFF]	Unlock switch status input from door lock and unlock switch	
I-KEY LOCK [ON/OFF]	Lock signal status received from Intelligent Key unit by CAN communication	
I-KEY UNLOCK [ON/OFF]	Unlock signal status received from Intelligent Key unit by CAN communication	

ACTIVE TEST

Test Item	Operation	Description	
IGN ILLUM	ON	Outputs the ignition keyhole illumination control signal to turn the ignition keyhole illumination lamp ON.	
IGN ILLUM	OFF	Stops the ignition keyhole illumination control signal to turn the ignition keyhole illumination lamp OFF.	
INT LAMP	ON	Outputs the interior room lamp control signal to turn the interior room lamps ON.	
OFF		Stops the interior room lamp control signal to turn the interior room lamps OFF.	
STEP LAMP TEST	ON	Outputs the step lamp control signal to turn the step lamps ON.	
		Stops the step lamp control signal to turn the step lamps OFF.	
LUGGAGE LAMP TEST ON Outputs the luggage lamp control signal to turn the luggage lamp ON.		Outputs the luggage lamp control signal to turn the luggage lamp ON.	
OFF Stops the luggage lamp control signal to turn the luggage lamp OFF.		Stops the luggage lamp control signal to turn the luggage lamp OFF.	

BATTERY SAVER

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

INFOID:0000000005356711

WORK SUPPORT

Work Item	Setting Item	Setting		
ROOM LAMP TIMER SET	MODE 1*	30 min.		
	MODE 2	60 min.	Sets the interior room lamp battery saver timer operating time.	
	MODE 3	10 min.		

^{*:} Initial setting

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [ON/OFF]	Ignition switch (ON) status judges from IGN signal (ignition power supply)
KEY ON SW [ON/OFF]	The switch status input from key switch
DOOR SW-DR [ON/OFF]	The switch status input from front door switch (driver side)
DOOR SW-AS [ON/OFF]	The switch status input from front door switch (passenger side)
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]	The switch status input from back door switch
KEY CYL LK-SW [ON/OFF]	Lock switch status input from door key cylinder switch
KEY CYL UN-SW [ON/OFF]	Unlock switch status input from door key cylinder switch
CDL LOCK SW [ON/OFF]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [ON/OFF]	Unlock switch status input from door lock and unlock switch
I-KEY LOCK [ON/OFF]	Lock signal status received from Intelligent Key unit by CAN communication
I-KEY UNLOCK [ON/OFF]	Unlock signal status received from Intelligent Key unit by CAN communication

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< FUNCTION DIAGNOSIS >

ACTIVE TEST

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

^{*:} Each lamp switch is in ON position.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000005356487

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Regarding Wiring Diagram information, refer to BCS-49, "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	Potton, nower cumply	22 (15A)
70	Battery power supply	F (50A)
11	Ignition ACC or ON	4 (10A)
38	Ignition ON or START	59 (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.

>> GO TO 3

>> Repair or replace harness.

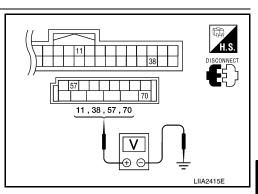
2. Disconnect BCM.

YES

NO

3. Check voltage between BCM harness connector and ground.

Connector	Term	inals	Power	Condition	Voltage (V) (Ap-	
Connector	(+)	(-)	source	Condition	prox.)	
M18	11	Ground	ACC power supply	Ignition switch ACC or ON	Battery voltage	
	38	38 Ground power sw	Ignition switch ON or START	Battery voltage		
M20	57	Ground	Battery power supply	Ignition switch OFF	Battery voltage	
IVI2U	70	Ground	Battery power supply	Ignition switch OFF	Battery voltage	
Is the measurement value normal?						



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3. CHECK GROUND CIRCUIT

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

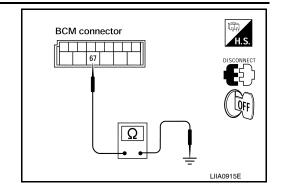
Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M20	67		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description INFOID:000000005146727

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

Component Function Check

INFOID:0000000005146728

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1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

(P)CONSULT-III

- Turn ignition switch ON. 1.
- Turn each interior room lamp ON.
- Front room/map lamp assembly
- Vanity lamps
- Personal lamp 2nd row
- Personal lamp 3rd row
- Cargo lamp
- 3. Open the driver door to turn ON the step lamps, foot lamps and puddle lamps.
- Front step lamps
- Rear step lamps
- Foot lamps
- Puddle lamps
- Ignition keyhole Illumination
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- While operating the test item, check that each interior room lamp turns ON/OFF.

: Interior room lamps OFF **OFF** ON : Interior room lamps ON

Is the inspection result normal?

YES >> Battery saver output/power supply circuit is normal.

NO >> Refer to INL-17, "Diagnosis Procedure".

Diagnosis Procedure

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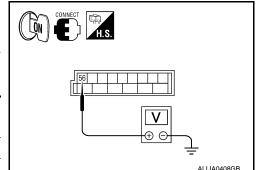
Regarding Wiring Diagram information, refer to BCS-49, "Wiring Diagram".

${f 1}$.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

CONSULT-III

- Turn ignition switch ON.
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active
- 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
10120	30	Ground	ON	Battery voltage



Is the inspection result normal?

YES >> GO TO 2

NO >> Replace BCM. Refer to BCS-59, "Removal and Installation".

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect the following connectors.
- BCM M20
- Ignition keyhole illumination
- Front step lamp LH
- Front step lamp RH
- Door mirror LH
- Door mirror RH
- Rear step lamp LH
- Rear step lamp RH
- Foot lamp LH
- Foot lamp RH
- Front room/map lamp assembly
- Vanity lamp LH
- Vanity lamp RH
- Cargo lamp
- Personal lamp 2nd row
- Personal lamp 3rd row
- 3. Check continuity between BCM connector M20 terminal 56 and each interior room lamp connector.

BCI	BCM Interior room lamp					
Connector	Terminal	Connector	Terminal	Continuity		
	Ignition keyhole illumination	M150	1			
		Front step lamp LH	D11	1		
		Front step lamp RH	D109	1		
		Door mirror LH	D4	12		
	Door mirror RH	D107	12			
	Rear step lamp LH	D206	1			
	Rear step lamp RH	D306	1			
M20	M20 56	56	Foot lamp LH	M99	1	Yes
		Foot lamp RH	M100	1		
		Front room/map lamp assembly	R102	6		
		Vanity lamp LH	R3	1		
		Vanity lamp RH	R8	1		
	Cargo lamp	B153	2			
	Personal lamp 2nd row	R203	3			
		Personal lamp 3rd row	R205	3		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

3.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

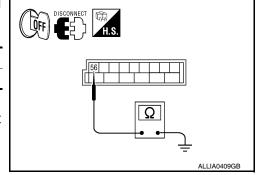
Check continuity between BCM connector M20 terminal 56 and ground.

Connector	Terminal	_	Continuity
M20	56	Ground	No

Is the inspection result normal?

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

NO >> Repair the harness or connectors.



INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description INFOID:0000000005146730

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

- Puddle lamps
- · Front room/map lamp assembly
- · Personal lamp 2nd row
- · Personal lamp 3rd row

NOTE:

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

Component Function Check

INFOID:0000000005146731

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CAUTION:

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

- Battery saver output/power supply
- Front room/map lamp bulbs
- Personal lamp bulbs
- Puddle lamp bulbs

${\sf 1.}$ CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

(P)CONSULT-III

Switch the front room/map lamp assembly switch to DOOR.

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

ON : Interior room lamp gradual brightening
OFF : Interior room lamp gradual dimming

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to INL-19, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005146732

Regarding Wiring Diagram information, refer to INL-28, "Wiring Diagram".

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

(P)CONSULT-III

- 1. Switch the front room/map lamp assembly switch to DOOR.
- Turn ignition switch ON.
- 3. 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	(-)	IIVI LAWII	voltage	
M20	63	Ground	ON	0V	
IVIZU	03	Giodila	OFF	Battery voltage	

CONNECT H.S. ALLIA0410GB

Is the inspection result normal?

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

Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2

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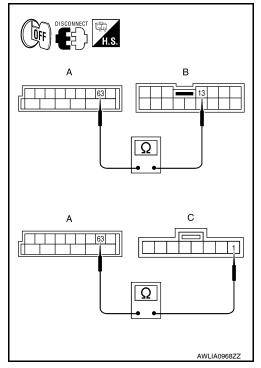
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$\overline{2}$.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, door mirror connectors and front room/map lamp assembly connector.
- 3. Check continuity between BCM connector M20 (A) terminal 63 and the door mirror connectors (B) and front room/map lamp assembly connector (C).

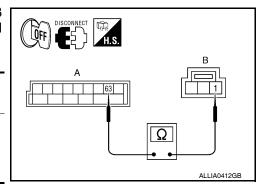
ВС	M	Interio	Interior room lamp		
Connector	Terminal	Component	Connector	Terminal	Continuity
		Door mirror LH	D4 (B)	13	
M20 (A)	63	Door mirror RH	D107 (B)	13	Yes
		Front room/map lamp assembly	R102 (C)	1	

4. Reconnect the front room/map lamp assembly connector.



 Check continuity between BCM connector M20 (A) terminal 63 and the 2nd and 3rd row personal lamp connectors (B) terminal 1.

ВС	M	Interior room lamp			Continuity
Connector	Terminal	Component	Connector	Terminal	Continuity
M20 (A)	63	Personal lamp 2nd row	R203 (B)	1	Yes
IVIZU (A)	03	Personal lamp 3rd row	R205 (B)	1	165



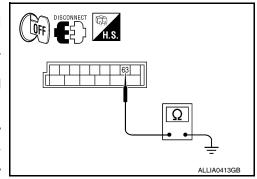
Is the inspection result normal?

- YES >> Check interior room lamps for an open. If OK, replace BCM. Refer to <u>BCS-59</u>, "Removal and <u>Installation"</u>. If NG, replace interior room lamp. Refer to <u>INL-77</u>, "Removal and <u>Installation"</u> or <u>MIR-17</u>, "Door Mirror Assembly".
- NO >> Repair the harness or connectors.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, door mirror connectors and 2nd and 3rd row personal lamp connectors.
- 3. Switch the front room/map lamp assembly switch to ON position.
- 4. 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 lamps for a short circuit. If OK, replace BCM. Refer to <u>BCS-59</u>, "Removal and <u>Installation"</u>. If NG, replace interior room lamp. Refer to <u>INL-77</u>, "Removal and <u>Installation"</u> or <u>MIR-17</u>, "Door Mirror Assembly".

INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

NO >> Repair the harness or connectors.

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STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

STEP LAMP CIRCUIT

Description INFOID:0000000005146733

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

Component Function Check

INFOID:0000000005146734

CAUTION:

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

- Battery saver output/power supply
- Front step lamp bulbs
- Rear step lamp bulbs
- Foot lamp bulbs

1.CHECK STEP LAMP OPERATION

(P)CONSULT-III

Turn ignition switch ON.

Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.

While operating the test item, check that the front/rear step lamps and foot lamps turn ON/OFF.

ON: Step lamp ON
OFF: Step lamp OFF

Is the inspection result normal?

YES >> Step lamp circuit is normal.

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

Diagnosis Procedure

INFOID:0000000005146735

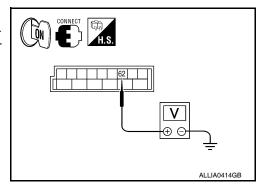
Regarding Wiring Diagram information, refer to INL-28, "Wiring Diagram".

1. CHECK STEP LAMP OUTPUT

(P)CONSULT-III

- 1. Turn ignition switch ON.
- Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check voltage between BCM harness connector M20 terminal 62 and ground.

Connector	Terminal	_	STEP LAMP TEST	Voltage
M20	62	Ground	ON	0V
IVIZU	02	Ground	OFF	Battery voltage
1. 0		10	•	



Is the inspection result normal?

YES >> Step lamp circuit is operating normally.

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

2.CHECK STEP LAMP OPEN CIRCUIT

STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

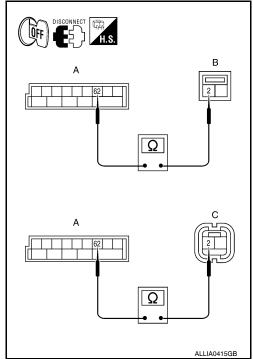
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, front step lamp, rear step lamp and foot lamp connectors.
- 3. Check continuity between BCM connector M20 (A) terminal 62 and step lamp connectors (B) and foot lamp connectors (C).

Connector	Terminal	Connecto	r	Terminal	Continuity
		Front step lamp LH	D11 (B)	2	
		Front step lamp RH	D109 (B)	2	
M20 (A)	62	Rear step lamp LH	D206 (B)	2	Yes
	02	Rear step lamp RH	D306 (B)	2	168
		Foot lamp LH	M99 (C)	2	
		Foot lamp RH	M100 (C)	2	

Is the inspection result normal?

YES >> Check step lamp or foot lamp for an open. If OK, replace BCM. Refer to BCS-59, "Removal and Installation". If NG, replace step lamp or foot lamp. Refer to INL-77, "Removal and Installation".

NO >> Repair harness or connectors.



3.check step lamp short circuit

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

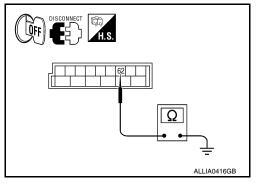
Connector	Terminal	_	Continuity
M20	62	Ground	No

Is the inspection result normal?

YES >> Check step lamp or foot lamp for a short circuit. If OK, replace BCM. Refer to BCS-59, "Removal and Installa-

tion". If NG, replace step lamp or foot lamp. Refer to INL-77, "Removal and Installation".

NO >> Repair the harness or connectors.



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Revision: April 2009 INL-23 2010 QX56

CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

CARGO LAMP CONTROL CIRCUIT

Description INFOID:000000005146736

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

Component Function Check

INFOID:0000000005146737

CAUTION:

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

- Battery saver output/power supply
- Cargo lamp bulb
- 1. CHECK CARGO LAMP OPERATION

(P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check that 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-22, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005146738

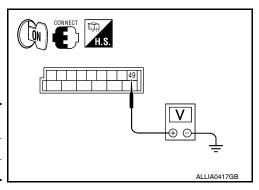
Regarding Wiring Diagram information, refer to INL-28. "Wiring Diagram".

1. CHECK CARGO LAMP OUTPUT

(P)CONSULT-III

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

Connector	Terminal	_	LUGGAGE LAMP TEST	Voltage	
M19	49	Ground	ON	0V	
M19	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

CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

- Turn ignition switch OFF.
- 2. Disconnect BCM connector M19 and cargo lamp connector.
- Check continuity between BCM connector M19 (A) terminal 49 and cargo lamp connector B153 (B) terminal 1.

В	CM	Cargo	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M19 (A)	49	B153 (B)	1	Yes

Ω

Is the inspection result normal?

YES >> Check cargo lamp for an open. If OK, replace BCM. Refer to BCS-59, "Removal and Installation". If NG, replace cargo lamp. Refer to INL-81. "Removal and Installation".

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.
- Check continuity between BCM connector M19 terminal 49 and ground.

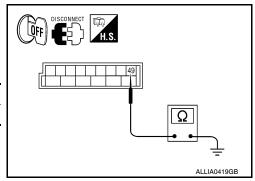
Connector	Terminal	_	Continuity
M19	49	Ground	No



Is the inspection result normal?

YES >> Check cargo lamp for a short circuit. If OK, replace BCM. Refer to BCS-59, "Removal and Installation". If NG, replace cargo lamp. Refer to INL-81, "Removal and Installation".

NO >> Repair harness or connectors.



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INL-25 2010 QX56 Revision: April 2009

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description INFOID:00000000514673S

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

Component Function Check

INFOID:0000000005146740

CAUTION:

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

- Battery saver output/power supply circuit
- Ignition keyhole illumination bulb
- $1.\mathsf{check}$ ignition keyhole illumination operation

(P)CONSULT-III

- 1. Turn the ignition switch ON.
- Select "IGN ILLUM" of BCM (INT LAMP) active test item.
- 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-26, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005146741

Regarding Wiring Diagram information, refer to INL-28. "Wiring Diagram".

1. CHECK IGNITION KEYHOLE OUTPUT

(P)CONSULT-III

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

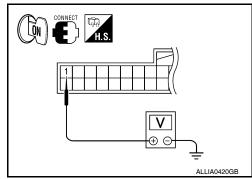
Connector	Terminal	_	IGN ILLUM	Voltage	
M18	1	Ground	ON	0V	
IVITO		Ground	OFF	Battery voltage	

Is the inspection result normal?

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

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

2.CHECK IGNITION KEYHOLE ILLUMINATION OPEN CIRCUIT

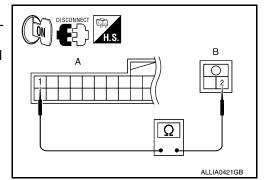


IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT 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.

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



Is the inspection result normal?

- YES >> Check ignition keyhole illumination for an open. If OK, replace BCM. Refer to <u>BCS-59</u>, "Removal and Installation". If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.

3.check ignition keyhole illumination short circuit

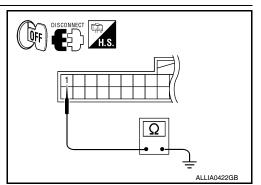
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
- 3. Check continuity between BCM connector M18 terminal 1 and ground.

Connector	Terminal	_	Continuity
M18	1	Ground	No

Is the inspection result normal?

YES >> Check ignition keyhole illumination for a short circuit. If OK, replace BCM. Refer to BCS-59. "Removal and Installation". If NG, replace ignition keyhole illumination.

NO >> Repair harness or connectors.



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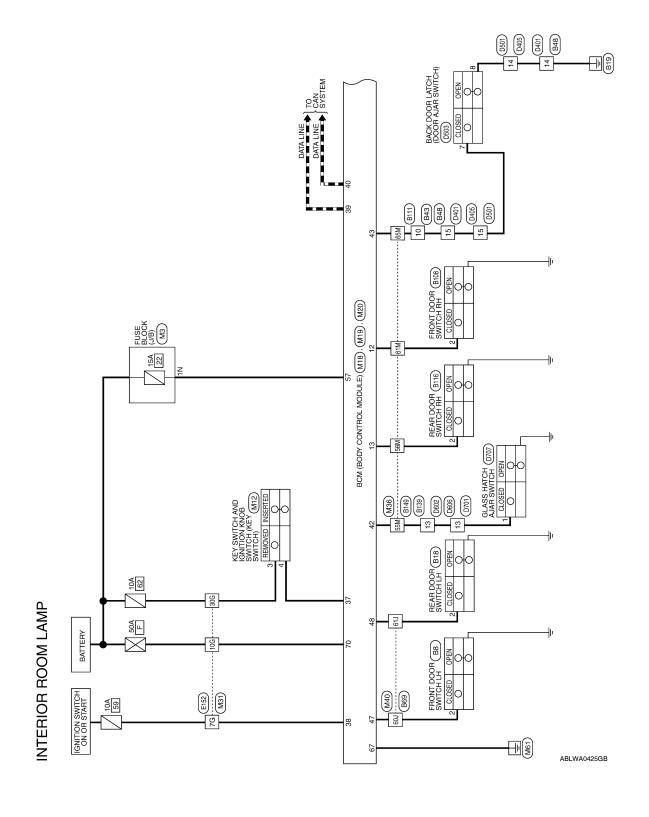
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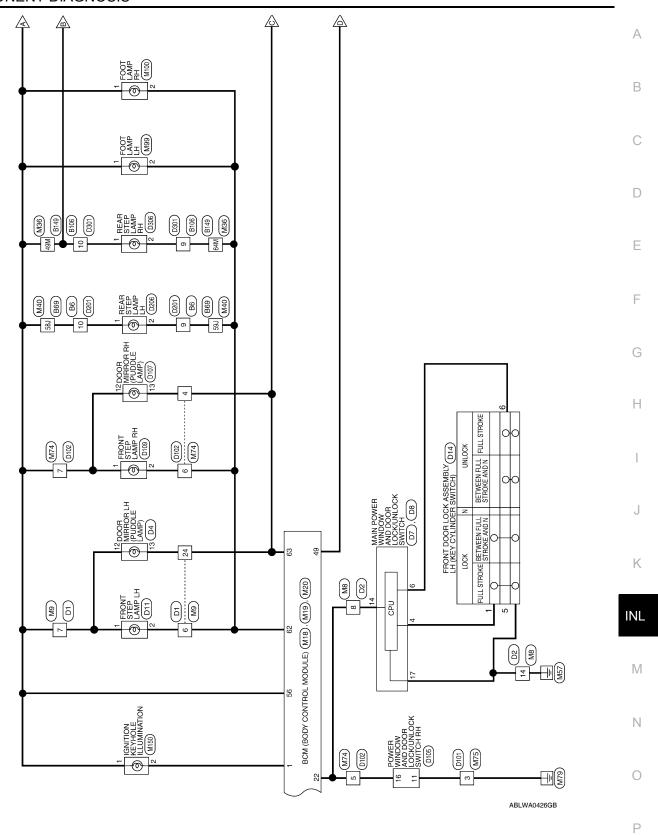
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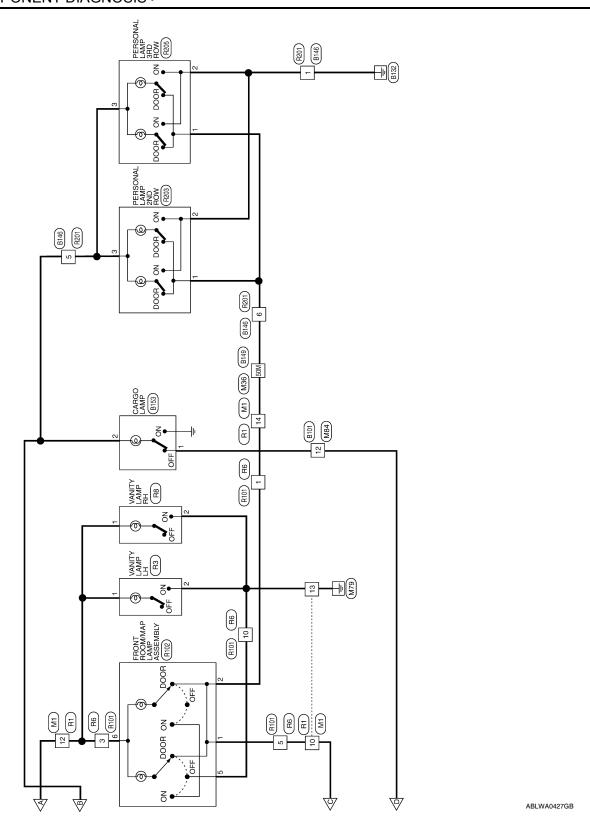
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Wiring Diagram



< COMPONENT DIAGNOSIS >





< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONNECTORS

ctor Name WIRE TO WIRE	ctor Color WHITE	7 6 5 4 3 2 1 10 9 3	nal No. Color of Signal Na	\/M	4 B		
Connec	Connec	原 H.S.	Termin	80	14		
SE BLOCK (J/B)	ITE	2N 1N	Signal Name	I			
me FU§	lor WH	8 8 8 8 8 8 8 8 8 8	Color of Wire	Y/R			
Connector Na	Connector Co	配.S.	Terminal No.	Z			
TO WIRE	Ë	3 2 1	Signal Name	1	1	1	1
		9 5	Solor of Wire	_	B/G	В	Œ
Connector Nam	Connector Colo	所 H.S.	Terminal No.	10	12	13	14
	Connector Name WIRE TO WIRE Connector Name FUSE BLOCK (J/B)	WIRE TO WIRE Connector Name FUSE BLOCK (J/B) WHITE Connector Color WHITE	nector Name WIRE TO WIRE Connector Name EUSE BLOCK (J/B) Connector Name WIRE nector Color WHITE Connector Color WHITE Connector Color WHITE In	Connector Name WIRE TO WIRE Connector Name FUSE BLOCK (J/B) Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE Color WH	Connector Name WIRE TO WIRE Connector Name FUSE BLOCK (J/B) Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE WHITE Connector Color WHITE	Connector Name WIRE TO WIRE Connector Name FUSE BLOCK (J/B) Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE WHITE WHITE Connector Color WHITE WHITE Connector Color WHITE WHITE WHITE WHITE WHITE WHITE WHITE Connector Color WHITE WHITE	Connector Name WIRE TO WIRE Connector Name FUSE BLOCK (J/B) Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE WHITE Connector Color WHITE WHITE Connector Color WHITE Connector Color WHITE WHITE Connector Color WHITE Connector Color

Signal Name

Connector No.	6W	Connector No. M12	M12	Connector No. M18	M18
Connector Name	connector Name WIRE TO WIRE	Connector Name	Connector Name KEY SWITCH AND IGNITION	Connector Name	Connector Name BCM (BODY CONTROL
Connector Color BROWN	BBOWN		KNOB SWITCH		MODULE)
				Connector Color WHITE	WHITE

Connector No. M18	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 20 21 22 22 24 25 26 27 28 2 9 30 31 32 38 34 35 36 37 38 39 40 40	30 30	Terminal No. Wire Signal Name	BR/W KEY RING OUTPUT
Connector	Connecto	Connector		1 2 3 4 21 22 23 24		Terminal I	-
Connector No. M12	Connector Name KEY SWITCH AND IGNITION KNOB SWITCH	Connector Color GRAY	H.S. 1123456	Terminal No. Wire Signal Name	3 ×	4 B/R –	
. M9	Connector Name WIRE TO WIRE	BROWIN	10 9 8 7	Color of Signal Name	R/W	R/G –	
Connector No.	Connector Nai	COLINECTOL COLOR BROWN	H.S.	Terminal No. Wire	9	7	24

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W/L

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CAN-L

KEY SW

DOOR SW (AS) DOOR SW (RR)

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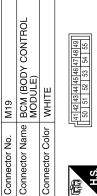
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M20	Connector Name BCM (BODY CONTROL MODULE)	3LACK	
Connector No.	Connector Name	Connector Color BLACK	



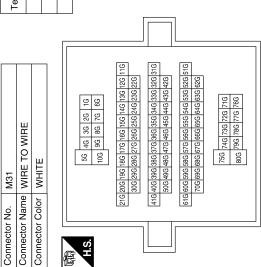






Signal Name	GLASS HATCH SW	BACK DOOR SW	DOOR SW (DR)	DOOR SW (RL)	LUGGAGE LAMP OUTPUT
Color of Wire	GR	B/B	SB	R/Y	В
Terminal No. Wire	42	43	47	48	49

Signal Name	1	1	1	
Color of Wire	M/L	M/B	\	
Terminal No. Wire	76	10G	30G	
			F	_

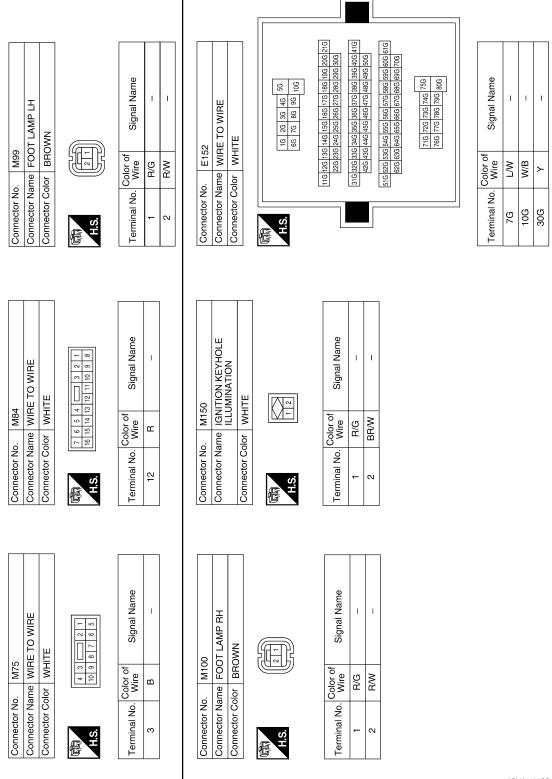


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									CN CN	1	Solor BEOWN		0 0 7 6	20 19 18 17		Color of Wire	_	N/W	B/W	B/G				
									Connector No.	A rotocoaco	Connector Color			H.S.		Terminal No.	4	2	9	7				
								1																
lame										lame														
Signal Name				1	1		1			Signal Name				1										
)	B/G	Œ	GR	GR	R/L	B/W	B/B		Color	Wire	B/G	B/W	SB	R/Y										
Š	49M	20M	55M	26M	61M	64M	65M			Terminal No.	58J	591	600	61J										
•											•	•	- [F										\exists	
				74	W9]	4M 13M 12M 11M	24M 23M 22M 31M A4M 33M 32M 31M A4M 63M 62M 62M M 71M M 71M M 77M						= 3	3	J 13J 12J 11J		33, 32, 31,	024 004 0	J 53J 52J 51J J 63J 62J]	767		
Connector Name WIRF TO WIRE	WHITE	J		ME ME ME	M9 M7 M8 M0 M01	MO	21M 20M 19M 18M 17M 16M 15M 14M	30M 29M 28M 27M 26M 25M 24M 25M 50M 49M 49M 47M 49M 45M 44M 43M 50M 69M 69M 57M 69M 55M 54M 53M 70M 69M 69M 67M 69M 65M 64M 63M 75M 78M 73M 77M 78M 77M 78M 77M 78M	M40	M40	Connector Name WIRE TO WIRE	WHILE		51 41 31 21	10) 80 70 60	213 200 193 183 173 163 153 144		41.0 40.0 39.0 38.0 37.0 36.0 35.0 34.0 50.0 49.0 48.0 47.0 46.0 45.0 44.0	11 1001 1001 1001 1001	611 601 59J 58J 57J 56J 55J 54J 70J 69J 68J 67J 66J 65J 64J	757	80, 79, 78, 77, 76,		
or Name	or Color	_					21M	[61M]			or Name	_				21.1 2	<u>'</u>	410 4	2 Tr	610 6	J			
Connector No.	Connector Color		Œ		Ö.				- CM yapaaa		Connecto	Confriector Color	E	H.S.										
																					ABLI	A0138G	iВ	

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Signal I Sig	C
O	BS SA
Connector No. B18	600 61J
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MITCH LH	G
B8	Н
Connector No. B8	I
Connector No. Connector Color Connector No. Connector No. Connector No. Connector No. Connector No. 14 14 15 Raise 118	J
	K
WIRE 14 3 2 1 14 13 12 11 15 13 12 11 10 9 8 11 10 9 8 11 10 9 8 11 10 9 8 12 13 14 13 14 15 14 14 15 14 15 15 14 16 16 16 17 16 16 18 17 19 18 10	INL
Signature Signat	M
10 10 10 10 10 10 10 10	N
Connector No. Connector Name Connector No. Connector No. Connector No. Connector No. Connector No. Terminal No. Connector No. Terminal No.	0
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Signal Name

Terminal No. Wire

Signal Name

Terminal No. Wire

Signal Name

Terminal No. Wire

B/W

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< COMPONENT DIAGNOSIS >

Connector No. B101 Connector Name WIRE TO WIRE Connector Color WHITE	Connector No. B106 Connector Name WIRE TO WIRE Connector Color WHITE	Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE
H.S.	H.S.	H.S.
Terminal No. Color of Signal Name 12 R -	Terminal No. Color of Wire Signal Name 9 R/W - 10 R/G -	Terminal No. Wire Signal Name 2 R/L –
Connector No. B111 Connector Name WIRE TO WIRE Connector Color WHITE	Connector No. B116 Connector Name REAR DOOR SWITCH RH Connector Color WHITE	Connector No. B139 Connector Name WIRE TO WIRE Connector Color WHITE
(成)	H.S.	H.S.

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Signal Name										ITY LAMP L	Щ	2 -	Signal Name					С
Color of Wire	R/G	Œ	GR	GR	B/L	B/W	W/A		lo. R3	lame VAN	ALI MAII E		Color of Wire	B/G	В			D
Terminal No.	49M	20M	25M	26M	61M	64M	M59		Connector No.	Connector Name VANITY LAMP LH	Collifector	H.S.	Terminal No.	-	2			Е
			ſſ															F
				9W	MOF		11M 12M 13M 14M 15M 16M 17M 18M 19M 20M 21M	TIM SZM SZM				6 7 7 5 16 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Vame			1		G
	E TO WIRE			1M 2M 3M 4M 5M	6M 7M 8M 9M 10M		14M 15M 16M 17			Connector Name WIRE TO WIRE	<u></u>	3 4 5 6 0 11 12 13 14 15	Signal Name					Н
Jo. B149	lame WIR	Joior WHITE			1-	_	11M 12M 13M	51M 52M 53M 42M 43M 62M 63M 677 77	No.	Name WIF	H MHII E	1 2 3 3 6 9 9 10	Color of Wire	_	B/G	В	<u>«</u>	I
Connector No.	Connector Name WIRE TO WIRE	Connector Color		ATA TO	S.				Connector No.	Connector Name	IODE IIIOO	H.S.	Terminal No.	10	12	13	41	J
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				20 21				Signal Name					Signal Name		1			INL
46	Connector Name WIRE TO WIRE	BROWN		15 16 17 18 19					53	CARGO LAMP	WHILE	1 c						M
No. B146	Name WI			12 13 14 15 16				Color of Wire P B B B B B B B B B B B B B B B B B B	r No. B153	r Name CA	_		Color of Wire	۳	R/G			N
Connector No.	Connector	Connector Color	9	A TOLEY	Ę.S.			Terminal No.	Connector No.	Connector Name	COLINECTOR COIO	原 H.S.	Terminal No.	-	2			0
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< COMPONENT DIAGNOSIS >

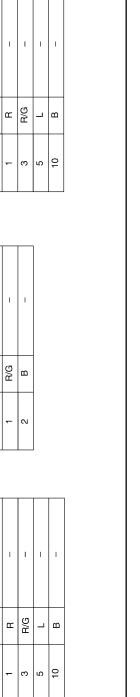
Connector No. R8	48	Connector No. R101	R101
r Name	Connector Name VANITY LAMP RH	Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE	Connector Color WHITE	WHITE
	<u></u>	H.S.	2 3
		(

Connector No.

	Signal Name	_	ı	I	-
1 2 3	Color of Wire	В	R/G	_	В
赋 H.S.	Terminal No. Wire	-	င	2	10
	Signal Name	ı	ı		

Color of Wire

Terminal No.



3	Connector Name PERSONAL LAMP	ZND HOW	ITE		Signal Nar	1	I	ı
. R203	me PEF	ZNI	lor WH		Color of Wire	ж	В	B/G
Connector No.	Connector Na		Connector Color WHITE	所 H.S.	Terminal No. Wire	-	2	c
			_					
1	IE TO WIRE	NWC		11 10 9 8 7 6 5 4 3 2 1 1 2 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1	Signal Name	_	_	_
. R201	me WIR	lor BRC		1 10 9 8 4 23 22 21	Color of Wire	В	R/G	æ
Connector No.	Connector Name WIRE TO WIRE	Connector Color BROWN		H.S.	Terminal No. Wire	-	5	9

Signal Name

B/G Œ

E TO WIRE	ITE	4	Signal Name	-	ı	Ι	_
me WIF	lor WHITE	7 6 5 4 16 15 14 13	Color of Wire	Ж	B/G	٦	۵
Connector Name WIRE TO WIRE	Connector Color	嘶 H.S.	Terminal No.	-	3	5	10

Connector Name		FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color		GRAY
原 H.S.	8 7	6 5 4 3 2 2 1
Terminal No.	Color of Wire	f Signal Name
-	_	DOOR BATT
2	Œ	GND THRU SW
2	В	GND
9	B/G	BAT

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R102

Connector No.

< COMPONENT DIAGNOSIS >

Connector No.	H205		Connector No. D1	-			Z	
Connector Name PERSONAL LAMP	ne PERS	SONAL LAMP	Connector Name WIRE TO WIRE	me WIRE	TO WIRE	Connector Name WIRE TO WIRE	me WIRE	E TO WIRE
	3RD ROW	ROW	Connector Color BROWN	lor BRO	Z	Connector Color WHITE	lor	ш
Connector Color WHITE	r WHIT	<u> </u>						
	<u> </u>			1 2 3 4 5 6 12 13 14 15 16 17	5 6		1 2 3 8 9 10 11	2 3
H.S.		3 2 1						
Terminal No. Wire	Solor of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
-	æ	1	9	W/A	I	∞	LG/W	I
2	В	1	7	B/G	1	14	В	1
က	B/G	1	24	_	1			

Connector Name AND DOOR LOCK/UNLOCK SWITCH Connector Color WHITE Terminal No. Wire Signal Name The Best Signal Name The Best Signal Name The Best Signal Name	Connector No.	D8	
WHITE 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Connector Na		N POWER WINDOW DOOR LOCK/UNLOCK ITCH
Color of Wire B	Connector Co	_	ITE
Color of Wire B	E H.S.		
В	Terminal No.		Signal Name
	17	В	GND

	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH	ITE	2 3 4 5 6 7 9 10 11 12 13 14 15 16	Signal Name	TOCK	NNFOCK	ANTI PINCH SERIAL
<u>`</u>		lor WHITE	8 10 8 10 8	Color of Wire	٦	ш	LG/W
Confrector No.	Connector Name	Connector Color	画 H.S.	Terminal No.	4	9	14

	DOOR MIRROR LH	ITE	11 12 13 14 15 16 2 3 4 5 6 7 8 9	Signal Name	I	=
D4	ıme DO	lor WHITE	0 1	Color of Wire	R/G	_
Connector No.	Connector Name	Connector Color	·明·	Terminal No.	12	13

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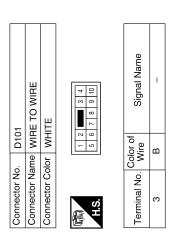
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< COMPONENT DIAGNOSIS >



	FRONT DOOR LOCK ASSEMBLY LH	BLACK	3 4 5 6	Signal Name	HOCK	GND	NNFOCK
D14			1 2	Color of Wire	٦	В	Ж
Connector No.	Connector Name	Connector Color	(京) H.S.	Terminal No. Wire	-	2	9

	FRONT STEP LAMP LH			Signal Name	1	ı
D11	FRONT S	WHITE	2 1	color of Wire	R/G	R/W
	ame	Jo.		0	Æ	Ъ.
Connector No.	Connector Name	Connector Color	· H.S.	Terminal No.	-	2

7(Connector Name DOOR MIRROR RH	IITE	12	Signal Name	I	ı
. D107	me DO	lor WHITE	10 11 12 3	Color of Wire	R/G	_
Connector No.	Connector Na	Connector Color	原 H.S.	Terminal No.	12	13

Connector No.). D105	5
Connector Name		POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	olor WHITE	ПЕ
H.S.	- 8 - 6 - 6	2 3 4 5 6 7 9 10 11 12 13 14 15 16
Terminal No.	Color of Wire	Signal Name
Ξ	В	GND
16	LG/W	ANTI PINCH SERIAL

2	WIRE TO WIRE	BROWN	5 6 7 8	13 14 13 10 17 10 18 20	Signal Name	1	I	I	ı	
. D102			2 3	7 1 0	Color of Wire	_	LG/W	B/W	R/G	
Connector No.	Connector Name	Connector Color		H.S.	Terminal No.	4	2	9	7	

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< COMPONENT DIAGNOSIS >

	_					
90	Connector Name REAR STEP LAMP LH	нте		Signal Name	ı	ı
	me RE	lor W		Color o Wire	B/G	₽/W
Connector No. D206	Connector Na	Connector Color WHITE	哥 H.S.	Terminal No. Wire	-	2
_	E TO WIRE	TE	2 3 4 5	Signal Name	ı	ı
D20	ne WIR	or WH	11 2 3 4 5	Solor of Wire	W _W	B/G
Connector No. D201	Connector Name WIRE TO WIRE	Connector Color WHITE	所 H.S.	Terminal No. Wire	6	10
109	Connector Name FRONT STEP LAMP RH	HITE		of Signal Name	ı	ı
	ame FF	olor W		Color o Wire	B/G	R/W
Connector No. D109	onnector Na	Connector Color WHITE	H.S.	Terminal No. Wire	-	2

			I			
-	RE TO WIRE	ITE	2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 18	Signal Name	ı	ı
. D401	me WIF	lor WF	1 12 11 12	Color of Wire	<u>m</u>	₽
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	南 H.S.	Terminal No.	14	15

Connector No.
Connector Name
Connector Color
Color of Wire
B/G
₽₩

Connector No.). D301	01	
Connector Name WIRE TO WIRE	ame WI	RE TO WIRE	
Connector Color	olor W	WHITE	
H.S.	11 12 3	4 5 a 6 7 8 9 10	
Terminal No. Wire	Color of Wire	Signal Name	
6	B/W	ı	
10	B/G	ı	

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< COMPONENT DIAGNOSIS >

Connector No. D503 Connector Name BACK DOOR LATCH Connector Color WHITE	4 5 6 7 8 7 8 8 7 8 8 9 7 8 9 8 9 9 9 9 9 9 9	Color of	lerminal No. Wire Signal Name	7 R/W –	- В В	Connector No. D701	Connector Name WIRE TO WIRE	Connector Color WHITE
Conn	用.S.	ı	lerm			Conn	Conn	Conn
WIRE	■ 6 7 8 9 10 15 16 17 18	Signal Name	ı	ı			MIRE	
D501 WIRE TO \	13 14					D606	IRE TO	HITE
lo. Di.	11 12 3	Color of Wire	В	B/W			ame	olor
Connector No. D501 Connector Name WIRE TO WIRE Connector Color WHITE	原 A.S.	Terminal No.	14	15		Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE
			,	•				
TO WIRE	6 - 5 4 3 2 1	Signal Name	1	1			E TO WIRE	ш
D405 ne WIRE or WHIT	10 9 8 7 6	Color of Wire	В	B/W		D602	ne WIRE	r WHIT
Connector No. D405 Connector Name WIRE TO WIRE Connector Color WHITE	ن ن	Terminal No.	14	15		Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE
[8 8 8	E T	Te				ပိ	ပိ	ပိ

	E TO WIRE	TE	10 11 12 13 14 15 16	i	Signal Name	ı	
D20	ne WIR	or WHI	8 9 10	Solor of	Wire	GR	
Connector No. D701	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Color of	l erminal No.	13	
9	IE TO WIRE	ITE	14 13 12 11 10 9 8			Signal Name	1
09G	me WIR	or WH	16 15 1		Color of	Wire	GR
Connector No. D606	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.		Color of	lerminal No.	13
			<u> </u>				
2	E TO WIRE	TE	13 12 11 10 9 8			Signal Name	ı
D90	me WIR	or WH	7 6 5 16 15 14		Color of	Wire	GR
Connector No. D602	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.		Color of	i erminal No.	13

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< COMPONENT DIAGNOSIS >

D707	Connector Name GLASS HATCH AJAR SWITCH	BLACK	
Connector No.	Connector Name	Connector Color BLACK	

Signal Name	-
Color of Wire	GR
Terminal No.	-

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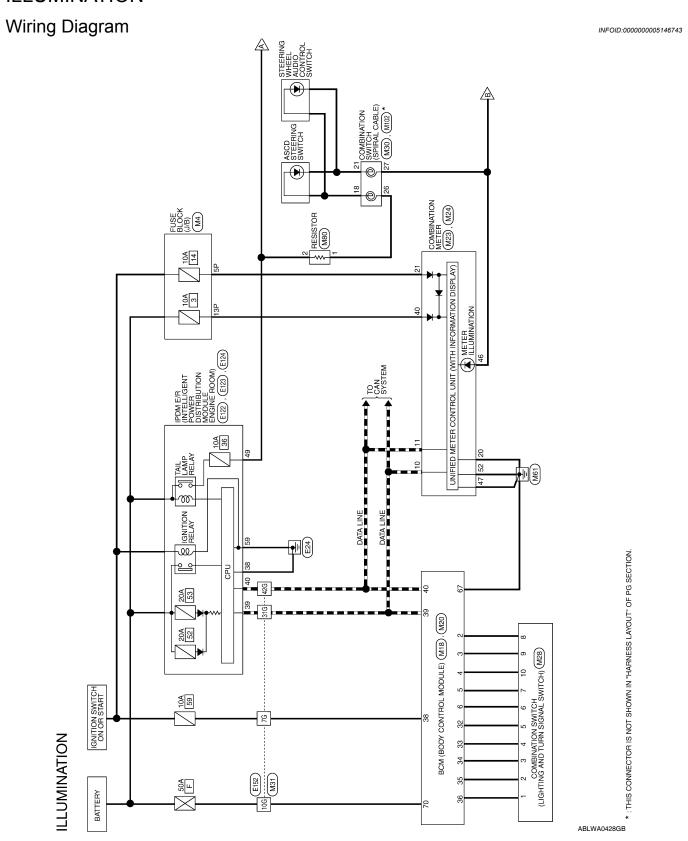
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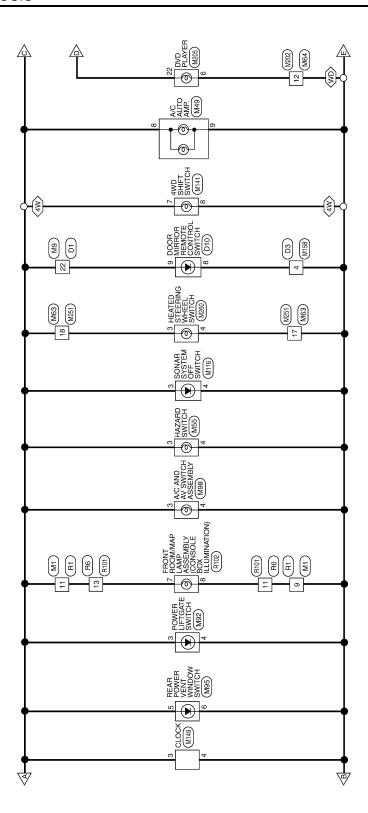
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ILLUMINATION



⟨4W⟩: WITH 4-WHEEL DRIVE
⟨WD⟩: WITH DVD ENTERTAINMENT SYSTEM



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< COMPONENT DIAGNOSIS > ⟨T7⟩: TRAILER TOW 7PIN
⟨WD⟩: WITH DVD ENTERTAINMENT SYSTEM M57 17 R201 M36 B146 B201 R201 (F) - Till (197 Weil with AV CONTROL UNIT (M42), (M45) REAR HEATED SEAT SWITCH 14 M201 M56 SFRONT 5 REAR HEATED (SEAT SWITCH (M25) M201 (F) -[=] ME51 M63 M63 M251

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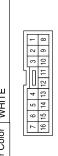
Connector Name WIRE TO WIRE

Connector No.

Connector Color BROWN

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M4	FUSE BLOCK (J/B)	WHITE
Connector No.	Connector Name FUSE BLOCK	Connector Color
M1	WIRE TO WIRE	WHITE
Connector No.	Connector Name	Connector Color



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-	ω	
2	6	
3	은	
П	F	
Ш	12	
4	33	
5	14	
9	15	
2	16	
		_
	5 4 3	5 4 3 2 14 13 12 11 10 9

Signal Name	I	I	
Color of Wire	BR	R/L	
Terminal No.	6	11	

Signal Name	ı	
Color of Wire	R/L	
Terminal No.	22	

Signal Name	1	1
Color of Wire	O/L	Ь
erminal No.	5P	13P

Те			
Signal Name	ı	I	
Color of Wire	BR	R/L	
	1		1

Connector No.		M20
Connector Name		BCM (BODY CONTROL MODULE)
Connector Color		BLACK
赋到 H.S.	56 57	56 57 58 59 70 18 59 70 18 69 70 18 69 70 18 18 70 70 18 18 70 70 18 18 70 70 70 70 70 70 70 7
Terminal No.	Color of Wire	ار Signal Name
29	В	GND (POWER)
20	W/B	BAT (F/L)

							Γ						
)	INPUT 5	INPUT 4	INPUT 3	INPUT 2	INPUT 1	OUTPUT 5		OUTPUT 4	OUTPUT 4 OUTPUT 3	OUTPUT 4 OUTPUT 3 OUTPUT 2	OUTPUT 4 OUTPUT 3 OUTPUT 2 OUTPUT 1	OUTPUT 4 OUTPUT 3 OUTPUT 2 OUTPUT 1 IGN SW	OUTPUT 4 OUTPUT 3 OUTPUT 2 OUTPUT 1 IGN SW CAN-H
	SB	G/Y	>	G/B	>	B/G		R/Y	R/Y	R/Y P O/B	R/Y L O/B R/W	L C O/B B/W	R/Y CO/B N/L W/L
,	2	3	4	5	9	32		33	33	33	33 35 36	33 34 35 36 38	33 38 39 39 39 39 39

Connector Color WHITE MODULE MODULE	Connector No.	M18	_ :	3		- 8	;	[7				
WHITE WHITE 1	arme	Ş Q Q	<u></u>	ŽΨ	ຽ _	ວ	z	Ť	5				
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 6 27 28 29 30 31 32 38 34 35 86 37 38 39 40	Connector Color	MH	빝										
6 7 8 9 101 112 13 14 15 16 17 18 19 20 6 27 28 29 39 31 32 33 34 35 86 37 38 39 40													
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 6 27 28 29 30 31 32 38 34 35 36 37 38 39 40		L											
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 86 27 28 29 30 31 32 33 34 35 36 37 38 39 40		\Box	\mathbb{N}	K	π								
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40		8	9 10	=	12	13	14	15	16	17	18	19	20
	26 27	28 2	30	31	32	33	34	35	36	37	38	33	40

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INL-47 Revision: April 2009 2010 QX56 Α

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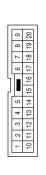
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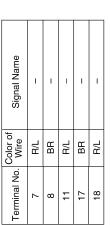
Connector No. Connector Nan	o. M23 ame COM	Connector No. M23 Connector Name COMBINATION METER	Connector No. Connector Name	M24 COMBIN	Connector No. M24 Connector Name COMBINATION METER	5 5	Connector No.	. M28	M28 COMBINATION SWITCH
Connector Color		WHITE	Connector Color	r WHITE		Con	Connector Color	lor WHITE	Œ
H.S.	4 46 4 4 52 5	45 44 43 42 41 51 50 49 48 47	S.H				H.S.	12 13 14 11	10 0 8 7 1 2 3 4 5 6
			20 19 18 17 16 15 14 An 30 38 37 36 34 34 34	\ 2 8 8 2 /	11 10 9 8 7 6 5 4 3 2 1 31 30 30 28 37 26 5 4 3 2 1	Terr	Terminal No.	Color of Wire	Signal Name
Terminal No.	Color of	Signal Name		3			- 0	W 6	INPUT 1
46			Co Terminal No.	Color of Wire	Signal Name		م د	2 _	INPUT 3
47	В	POWER GND	Ç	2 -	HINAC		4	₽Y	INPUT 4
52	В	POWER GND	2 =	ם ר	CAN-I		5	B/G	INPUT 5
			000	- a	GND		9	>	OUTPUT 1
				5 5	BIIN/STABT		7	G/B	OUTPUT 2
				, a	RATTERY		8	SB	OUTPUT 5
			Pr	-			6	Z√S	OUTPUT 4
							10	>	OUTPUT 3
Connector No	001		Connector No	1084				o rolo	
Connector Name		COMBINATION SWITCH	Connector Name WIRE TO WIRE	e WIRF T	O WIBE	Terr	Terminal No.	Wire	Signal Name
Connector Color		GRAY	Connector Color	r WHITE			7G	M/L	1
	-			_			10G	M/B	ı
							31G	Г	_
V A	24 25	26	S II	56	9 46 36 26 16		37G	B/L	-
5	31 32	32 33 34		<u> 5</u>	10G 9G 8G 7G 6G		42G	Ь	1
Terminal No.	Color of Wire	f Signal Name	216	G 20G 19G 18G	216 206 196 186 176 166 156 146 136 126 116				
26	>	1		30G 29G 28G	30G 29G 28G 27G 26G 25G 24G 23G 22G				
27	BR	ı	410	G 40G 39G 38G	416 406 396 386 376 366 356 346 336 326 316				
			919	50G 49G 48G G 60G 59G 58G 70G 69G 68G	50G 49G 48G 47G 46G 45G 44G 42G 42G 42G 44G 42G 42G 42G 42G 42G 62G 62G				
				750	756 746 736 726 716 806 796 789 776 766				

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ame ame	T T T T T T T T T T T T T T T T T T T	В
Connector No. M42 Connector Name AV CONTROL UNIT Connector Color WHITE H.S	Connector No. M55 Connector Name HAZARD SWITCH Connector Color WHITE Terminal No. Wire Signal Name 3 R/L - 4 BR -	С
Connector No. M42 Connector Name AV CON Connector Color WHITE H.S. 19 10 11 12 13 4 H.S. Color of P.M. Wire 9 R/L 20 B	No. M55 Name HAZAR Color of Wire BR BR	D
Connector No. Connector Cold Connector Cold H.S. Terminal No. 9 9 9	Connector No. Connector Name Connector Color H.S. H.S. 4 4	Е
		F
lame	AMP. 19 18 17 16 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 15	G
Signal Name	ANTO	Н
No. Color of Wire R/L		I
30M 30M	Connector No. Connector Name Connector Color Terminal No. B B B B B B B	J
	18 100 102 104 105	K
M36		INL
MHE TO WIRE WHITE SM AM 3M ZM IM TOM 3M Z	Connector No. M45 Connector Name AV CONTROL UNIT Connector Color WHITE H.S. H.S. F. F	M
Connector No. M36 Connector Name WHR Connector Color WHI LS. EIM ZOM 19M 30M 29M 61M 60M 39M 61M 60M 39M	Connector No. M45 Connector Name AV CONTRO Connector Color WHITE H.S. F. F	N
Connector Na. Connector Col. H.S.	Connector No. Connector Col. Connector Col. H.S. 68 87 72 74 77 77 77 77 77 77 77 77 77 77 77 77	0
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Connector No.	M63
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color BROWN	BROWN



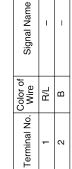






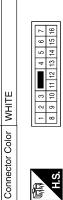








Connector No. M59



Connector Name WIRE TO WIRE

M56

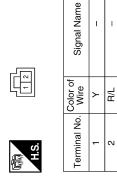
Connector No.



Signal Name	-	_
Color of Wire	B/L	В
Terminal No.	6	14

M80	RESISTOR	BLACK	
Connector No.	Connector Name RESISTOR	Connector Color BLACK	







M76

Connector No.



Signal Name	GND	ILL (TAIL)	
Color of Wire	В	B/L	
Terminal No.	-	4	

Connector No.). M64	
Connector Name WIRE TO WIRE	ame WIF	RE TO WIRE
Connector Color		BROWN
明S.H.S.	2 13 14 15	1 2 3 4 5 6
Terminal No.	Color of Wire	Signal Name
12	BB	ı

Terminal 12

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(0	Connector Name PEDAL ADJUSTING SWITCH	OWN	4 5 7 3 8	Signal Name	ı	ı
. M96	me PEI SW	lor BR		Color of Wire	R/L	BB
Connector No.	Connector Na	Connector Color BROWN	H.S.	Terminal No. Wire	2	9
M95	Connector Name REAR POWER VENT WINDOW SWITCH	WHITE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	r of Signal Name	ı	1
	Name I	Color		lo. Wir	B/L	BR
Connector No.	Connector	Connector Color WHITE	H.S.	Terminal No. Wire	5	9
					1	r
	Connector Name POWER LIFTGATE SWITCH		4 3 2 1	Signal Name	⊒	ILL_CONT_GND
M92	me POV	5	9 2	Color of Wire	B/L	BR
Connector No.	Connector Name POWE		H.S.	Terminal No. Wire	8	4

Connector No. M98	M98	Connector No. M102	M102	Connector No. M116	M116
Connector Nam	Connector Name A/C AND AV SWITCH ASSEMBLY	Connector Name COMBI Connector Color GBAY	Connector Name COMBINATION SWITCH Connector Color GRAY	Connector Name	Connector Name SONAR SYSTEM OFF SWITCH
Connector Color WHITE	WHITE			Connector Color GRAY	GRAY
是 H.S.	2 4 6 8 10 12 14 16 15 15 15 15 15 15 15 15 15 15 15 15 15	H.S.	[14] 15] 16] 17] 18] 19] 20] ZI	所 H.S.	6 5 4 3 2 1
Terminal No. Wire	olor of Signal Name	Terminal No. Wire	lor of Signal Name	Terminal No. Wire	llor of Signal Name

Z/ BR

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ILL CONT GND

Color of Wire BR

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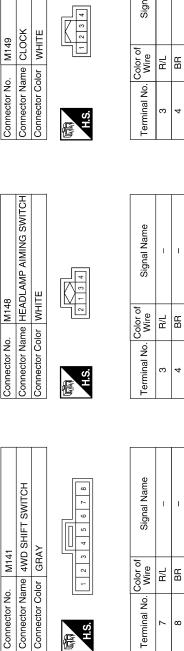
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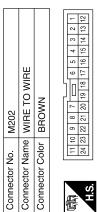
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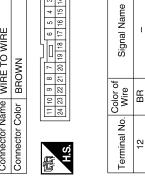
INL-51 Revision: April 2009 2010 QX56

Connector No. M149	Connector Name CLOCK	Connector Color WHITE
	P AIMING SWITCH	

Signal Name	ILL+	ILL-
Color of Wire	R/L	BR
inal No.	3	4







	WIRE		3 2 1	1 10 9 8
M201	WIRE TO	WHITE	6 5 4	16 15 14 13 12 11 10
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE		H.S.

7 6 5 4 3 2 1 1 10 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name	I	1
7 6 5 14 16 15 14	Color of Wire	B/L	В
H.S.	Terminal No.	6	14

Connector No.

10 9 8 7 6 5	Signal Name	I
9 8	Color of Wire	BR
H.S.	Terminal No.	4



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3	Connector Name REAR HEATED SEAT SWITCH RH	NMC	2 1 3 6	Signal Name	1	ı	
. M21	me RE/	lor BR(∞ 4	Color of Wire	R/L	В	
Connector No. M213	Connector Na	Connector Color BROWN	H.S.	Terminal No. Wire	5	9	
2	Connector Name REAR HEATED SEAT SWITCH LH	ПЕ	2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal Name	I	I	
M212	ne RE/ SW	or WH	€ 4	Color of Wire	R/L	В	
Connector No.	Connector Na	Connector Color WHITE	赋 H.S.	Terminal No. Wire	5	9	
			1-1-				
)5) PLAYER	1	28 27 26 25 24 23 22 21 20 19 18	Signal Name	ILL+	LIGHTING SW	
. M2C	me DVI		14 13 30 29	Color of Wire	BB	R/L	
Connector No. M205	Connector Name DVD PLAYER Connector Color WHITE		H.S. 16 15 32 31	Terminal No. Wire	9	22	

53	Sonnector Name VDC OFF SWITCH	AY		5 4 1 8 2 1	Signal Name	ı	-
. M253	me VD	lor GR	_	9	Color of Wire	R/L	BR
Connector No.	Connector Na	Connector Color GRAY		H.S.	Terminal No. Wire	3	4
52	Connector Name FRONT HEATED SEAT	SWITCH RH	OWN	2 1 3 6	Signal Name	ı	ı
. M252	me	SN	lor BR		Color of Wire	R/L	BR
Connector No.	nnector Na		Connector Color BROWN	fills.	Terminal No. Wire	5	9

			1								_
51	WIRE TO WIRE	BROWN		6 5 4 3 2 1 17 16 15 14 13 12 11 10		Signal Name	I	-	_	_	1
. M251				9 8 7 6 20 19 18 17 16 15		Color of Wire	B/L	BB	R/L	BB	ă
Connector No.	Connector Name	Connector Color			S.H.S.	Terminal No.	7	8	F	17	22

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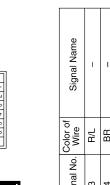
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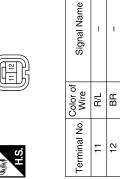
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INL-53 Revision: April 2009 2010 QX56

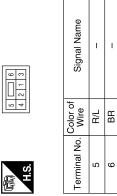
Connector No.	M258
Connector Name	Connector Name TOW MODE SWITCH
Connector Color GRAY	GRAY







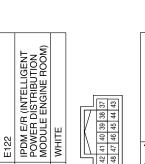




Signal Name	ı	I	
Color of Wire	R/L	BR	
Terminal No.	က	4	

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F123	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	BROWN
Connector No.	Connector Name	Connector Color BROWN



48 47 46 45 44 43	Signal Name	GND (SIGNAL)	CAN-H	CAN-L
42 41 48 47	Color of Wire	В	7	Ь
品S.	Terminal No.	38	39	40

ILLUMINATION Signal Name

Color of Wire R

Terminal No. 49

ᆮ		ļ.,
Connector No.	Connector Name	Connector Color
	ИЕЕГ	

4o. M260	Connector Name HEATED STEERING WHEEL SWITCH	Connector Color WHITE	
Connector No.	Connector N	Connector C	

Signal Name	ı	-	
Color of Wire	B/L	BR	
Terminal No.	3	4	

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	_						l								
Signal Name		Ι	1	1	ı	ı									
Color of	Wire	<u> </u>	M/B	_	R/L	۵									
Terminal No Miss		76	10G	31G	37G	42G									
				Г											
Connector No. E152	Connector Name WIRE TO WIRE	Connector Color WHITE			15 00 00 00 00 00 00 00 00 00 00 00 00 00	98 30		11G 12G 13G 14G 15G 18G 17G 18G 19G 20G 21G		009 000 020 000 000 000	000 000 000 000 000 000 000 000 000	51G 52G 53G 54G 55G 55G 55G 55G 59G 60G 61G 67G 59G 60G 61G	957	71G 72G 73G 74G 75G 76G 77G 78G 79G 80G	
E124	IPDM E/R (INTELLIGENT	Connector Name POWER DISTRIBUTION	MODULE ENGINE ROOM)	BLACK		59 58 57	62 61 60		r of Signal Name		GND (POWER)				
Connector No.		Connector Name		Connector Color		西山	H.S.		Terminal No. Wire		29 B				

Connector No.	S S	١,	ш.	B146	ဖ္									
Connector Name WIRE TO WIRE	or Na	шe	_	M	果	\vdash	>	¥	Щ					
Connector Color BROWN	S S	<u>ō</u>	_	3	6	₹								
9			li	li			۲	۲,	H	$\ $	$\ $		l	_
E S	_	2	က	4	r,	9			7	8	6	10	Ŧ	
OH.	12	13	14	15	16	17	12 13 14 15 16 17 18 19 20 21 22 23 24	19	20	21	22	23	24	
į														_

WIRE	BROW	4 5	15 16	
Connector Name	Connector Color	1 2 3	12 13 14	

Signal Name	ı	1
Color of Wire	В	R/L
Terminal No.	17	22

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Connector No. R6 Connector Name WIRE TO WIRE Connector Color WHITE	T 6 5 4 3 2 1 H.S. H.	Terminal No. Color of Signal Name 11 BR – 13 R/L – 13		Connector Name WIRE TO WIRE Connector Color BROWN 11 10 9 8 7	Color of Signal Wire BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	22 R/L –
Connector No. R1 Connector Name WIRE TO WIRE Connector Color WHITE	H.S. (8 9 10 11 12 13 14 15 16	Terminal No. Color of Signal Name 9 BR - 11 R/L -		Connector No. R102 Connector Name FRONT ROOM/MAP LAMP ASSEMBLY Connector Color GRAY RATE A A A A A A A A A	Terminal No. Wire Signal Name 7 R/L ILL+ 8 BR III-	5
Connector No. B149 Connector Name WIRE TO WIRE Connector Color WHITE		21M 22M 23M 24M 25M 25M 23M 23M 23M 23M 24M 25M 25M	₹ <u>`</u>	Connector No. R101 Connector Name WIRE TO WIRE Connector Color WHITE (1 2 3	Color of Signal Name	ח/ר

			7				
3	Connector Name WIRE TO WIRE	/HITE		1	of Signal Name	ı	
δ. D	Vame W	Solor			Color of Wire	BB	
Connector No. D3	Connector N	Connector Color WHITE		H.S.	Terminal No. Wire	4	
			7]	
	RE TO WIRE	NMO		4 5 6 6 7 8 9 10 11 15 16 17 18 19 20 21 22 23 24 14 15 16 17 18 19 20 21 22 23 24 24 25 25 24 24 25 25 24 24 25 25 24 24 25 25 24 24 25 25 25 24 24 25 25 25 24 24 25 25 25 24 24 25 25 25 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Signal Name	ı	
	me WIF	lor BR		12 3 4 12 13 14 15	Color of Wire	R/L	
Connector No. D1	Connector Name WIRE TO WIRE	Connector Color BROWN		H.S.	Terminal No. Wire	22	
			_				
4	Connector Name REAR AUDIO REMOTE	NI ROL OINI I	ІТЕ	12 13 14 15 6 7 8 8 1 15 16 8 1 15 16 8 1 15 16 8 1 15 16 8 1 15 16 8 1 15 16 8 1 15 16 8 1 15 16 8 1 15 16 8 1 15 16 8 1 15 15 16 8 1 15 15 15 15 15 15 15 15 15 15 15 15 1	Signal Name	LL+	GND
R20	me RE/	3	or WH	9 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Color of Wire	P/F	В
Connector No. R204	Connector Na		Connector Color WHITE	H.S.	Terminal No. Wire	9	15

Connector No.		
Connector Name		DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	lor WHITE	ITE
H.S.	8 9 10	2 3 4 5 6 7 9 10 11 12 13 14 15 16
Terminal No.	Color of Wire	Signal Name
8	BR	I
6	R/L	1

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< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

AIR COND SW A/C switch OFF OFF A/C switch ON ON AUT LIGHT SYS Outside of the room is dark OFF OUTSIDE OF Lighting switch OFF OFF AUTO LIGHT SW Lighting switch OFF OFF Lighting switch OFF OFF Lighting switch AUTO ON BACK DOOR SW Back door opened OFF CARGO LAMP SW Cargo lamp switch OFF OFF CARGO LAMP SW Cargo lamp switch OFF OFF CDL LOCK SW Door lock/unlock switch does not operate OFF CDL LOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch does not operate OFF Press door lock/unlock switch to the UNLOCK side ON DOOR SW-AS Front door RH closed OFF Front door LH closed OFF DOOR SW-AD Front door LH closed OFF DOOR SW-RL Rear door LH closed OFF Rear door RH closed OFF Rear door RH closed OFF Rear door RH closed OFF	Monitor Item	Condition	Value/Status
ACS switch ON Outside of the room is dark Outside of the room is bright OUTSIDE OFF OUTSIDE OFF AUTO LIGHT SW AUTO LIGHT SW Lighting switch OFF Lighting switch OFF Lighting switch OFF Lighting switch OFF OFF Back door closed ON	AID COND CW	A/C switch OFF	OFF
AUT LIGHT SYS Outside of the room is bright ON AUTO LIGHT SW Lighting switch OFF OFF Lighting switch AUTO ON BACK DOOR SW Back door closed OFF CARGO LAMP SW Cargo lamp switch OFF OFF CDL LOCK SW Door lock/unlock switch does not operate OFF CDL LOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch does not operate OFF Press door lock/unlock switch to the LOCK side ON DOOR SW-AS Front door RH closed OFF Pront door RH closed OFF Front door LH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ON Engline stopped OFF OFF Engline stopped OFF OFF Engline stopped OFF OFF Front tog lamp switch OFF OFF OFF Front tog lamp sw	AIR COND SW	A/C switch ON	ON
Outside of the room is bright	ALIT LICHT EVE	Outside of the room is dark	OFF
AUTO LIGHT SW	AUT LIGHT 515	Outside of the room is bright	ON
Lighting switch AUTO	ALITO LIGHT CVV	Lighting switch OFF	OFF
BACK DOOR SW Back door opened ON CARGO LAMP SW Cargo lamp switch OFF OFF CDL LOCK SW Door lock/unlock switch does not operate OFF CDL UNLOCK SW Press door lock/unlock switch to the LOCK side ON CDL UNLOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch does not operate OFF Press door lock/unlock switch to the UNLOCK side ON DOOR SW-AS Front door RH closed OFF Front door RH opened ON ON DOOR SW-DR Front door LH closed OFF Rear door LH closed OFF OFF Rear door LH opened ON ON DOOR SW-RR Rear door RH closed OFF Rear door RH closed OFF OFF Rear door RH opened ON ON ENGINE RUN Engine stopped OFF Engine stopped OFF OFF Front fog lamp switch OFF OFF Front fog lamp switch OFF OFF Front washer switch OFF OFF	AUTO LIGHT SW	Lighting switch AUTO	ON
Back door opened ON CARGO LAMP SW Cargo lamp switch OFF OFF CDL LOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch to the LOCK side ON CDL UNLOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch to the UNLOCK side ON DOOR SW-AS Front door RH closed OFF Front door RH opened ON DOOR SW-DR Front door LH closed OFF Front door LH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON ON DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ON ENGINE RUN Engine stopped OFF Engine stopped OFF OFF Engine running ON ON FR FOG SW Front fog lamp switch OFF OFF Front washer switch OFF OFF OFF Front washer switch OFF OFF OFF Front wip	DACK DOOD CW	Back door closed	OFF
CARGO LAMP SW Cargo lamp switch ON ON CDL LOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch to the LOCK side ON CDL UNLOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch does not operate OFF ON OFF Front does OFF Front does OFF Rear door OFF Rear door RH closed OFF Rear door LH closed OFF Rear door LH closed OFF Rear door RH closed <td>BACK DOOK SW</td> <td>Back door opened</td> <td>ON</td>	BACK DOOK SW	Back door opened	ON
Cargo lamp switch ON ON CDL LOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch to the LOCK side ON CDL UNLOCK SW Door lock/unlock switch does not operate OFF Press door lock/unlock switch to the UNLOCK side ON DOOR SW-AS Front door RH closed OFF Front door LH obsed OFF Front door LH obsed OFF Pront door LH opened ON DOOR SW-RL Rear door LH opened ON Rear door RH closed OFF Rear door RH opened ON BOOR SW-RR Rear door RH opened ON Engline stopped OFF Rear door RH opened ON FROSSW Front fog lamp switch OFF OFF Front fog lamp switch OFF OFF Front washer switch OFF OFF Front washer switch OFF OFF Front wiper switch OFF OF	CARCO LAMB CW	Cargo lamp switch OFF	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 Press door lock/unlock switch to the UNLOCK side ON DOOR SW-AS Front door RH closed OFF DOOR SW-DR Front door LH closed OFF Front door LH closed OFF DOOR SW-RR Rear door LH closed OFF Rear door LH opened ON OFF BOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ON ENGINE RUN Engine stopped OFF Engine stopped OFF OFF Engine running ON ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch OFF OFF Front washer switch OFF OFF Front wiper switch OFF OFF Front	CARGO LAMP SW	Cargo lamp switch ON	ON
CDL UNLOCK SW Press door lock/unlock switch does not operate OFF 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 Rear door LH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON ON DOOR SW-RR Rear door RH opened ON ENGINE RUN Engine stopped OFF Engine stopped OFF Engine running ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch ON ON FR WASHER SW Front washer switch OFF OFF Front washer switch OFF OFF Front wiper switch OFF OFF </td <td></td> <td>Door lock/unlock switch does not operate</td> <td>OFF</td>		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 Front door RH opened ON DOOR SW-DR Front door LH closed OFF Front door LH opened ON DOOR SW-RL Rear door LH closed OFF Rear door RH closed OFF Rear door RH closed OFF Rear door RH opened ON ENGINE RUN Engine stopped OFF Engine running ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch OFF OFF Front washer switch OFF OFF Front washer switch OFF OFF Front wiper switch O	CDL LOCK SW	Press door lock/unlock switch to the LOCK side	ON
Press door lock/unlock switch to the UNLOCK side ON DOOR SW-AS Front door RH closed OFF Front door RH opened ON DOOR SW-DR Front door LH closed OFF BOOR SW-RL Rear door LH closed OFF COOR SW-RR Rear door LH opened ON ENGINE RUN Rear door RH opened ON ENGINE RUN Engine stopped OFF Engine stopped OFF Engine running ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch ON ON FR WASHER SW Front washer switch OFF OFF Front wiper switch OFF OFF		Door lock/unlock switch does not operate	OFF
DOOR SW-AS Front door RH opened ON DOOR SW-DR Front door LH closed OFF Front door LH opened ON OFF DOOR SW-RL Rear door LH closed OFF DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ON ENGINE RUN Engine stopped OFF Engine running ON ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch ON ON ON FR WASHER SW Front washer switch OFF OFF Front washer switch OFF OFF OFF Front wiper switch OFF OFF OFF Front wiper switch OFF OFF OFF Front wiper switch HI ON ON FR WIPER INT Front wiper switch OFF OFF Front wiper switch INT ON FR WIPER STOP Any position other than front wiper stop position OFF Front wiper stop position ON	CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	ON
Front door RH opened	DOOD OW 40	Front door RH closed	OFF
DOOR SW-DR Front door LH opened ON BOOR SW-RL Rear door LH closed OFF Rear door LH opened ON BOOR SW-RR Rear door RH closed OFF Rear door RH opened ON Engine stopped OFF Engine running ON Front fog lamp switch OFF OFF Front fog lamp switch ON ON FR WASHER SW Front washer switch OFF OFF Front washer switch OFF OFF Front wiper switc	DOOR SW-AS	Front door RH opened	ON
Front door LH opened		Front door LH closed	OFF
DOOR SW-RR Rear door LH opened ON DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON ENGINE RUN Engine stopped OFF Engine running ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch ON ON FR WASHER SW Front washer switch OFF OFF Front wiper switch OFF OFF <t< td=""><td>DOOR SW-DR</td><td>Front door LH opened</td><td>ON</td></t<>	DOOR SW-DR	Front door LH opened	ON
Rear door LH opened ON		Rear door LH closed	OFF
DOOR SW-RR Rear door RH opened ON ENGINE RUN Engine stopped OFF Engine running ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch ON ON FR WASHER SW Front washer switch OFF OFF Front wiper switch ON ON ON FR WIPER LOW Front wiper switch OFF OFF Front wiper switch OFF OFF OFF Front wiper switch OFF OFF OFF FR WIPER INT Front wiper switch INT ON FR WIPER STOP Any position other than front wiper stop position OFF HAZARD SW When hazard switch is not pressed OFF	DOOR SW-RL	Rear door LH opened	ON
Rear door RH opened	DOOD OW DD	Rear door RH closed	OFF
ENGINE RUN Engine running ON FR FOG SW Front fog lamp switch OFF OFF Front fog lamp switch ON ON FR WASHER SW Front washer switch OFF OFF Front washer switch ON ON FR WIPER LOW Front wiper switch OFF OFF Front wiper switch LO ON FR WIPER HI Front wiper switch OFF OFF Front wiper switch HI ON FR WIPER INT Front wiper switch INT ON FR WIPER STOP Any position other than front wiper stop position OFF Front wiper stop position ON When hazard switch is not pressed OFF	DOOK SW-RR	Rear door RH opened	ON
Engine running	ENCINE DUN	Engine stopped	OFF
FR FOG SW Front fog lamp switch ON FR WASHER SW Front washer switch OFF Front washer switch ON ON FR WIPER LOW Front wiper switch OFF Front wiper switch LO ON FR WIPER HI Front wiper switch OFF Front wiper switch HI ON FR WIPER INT FR WIPER INT Front wiper switch OFF Front wiper switch OFF Front wiper switch OFF Front wiper switch OFF OFF Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP When hazard switch is not pressed OFF	ENGINE RUN	Engine running	ON
Front fog lamp switch ON	ED EOC CW	Front fog lamp switch OFF	OFF
FR WASHER SW Front washer switch ON FR WIPER LOW Front wiper switch OFF Front wiper switch LO FR WIPER HI Front wiper switch OFF Front wiper switch HI ON FR WIPER INT Front wiper switch OFF Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP HAZARD SW When hazard switch is not pressed OFF OFF OFF OFF OFF OFF OFF ON ON O	FR FOG SW	Front fog lamp switch ON	ON
Front washer switch ON	ED WASHED SW	Front washer switch OFF	OFF
FR WIPER LOW Front wiper switch LO ON FR WIPER HI Front wiper switch OFF Front wiper switch HI ON FR WIPER INT Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP HAZARD SW Front wiper switch is not pressed OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	FR WASHER SW	Front washer switch ON	ON
Front wiper switch LO Front wiper switch OFF Front wiper switch HI ON FR WIPER INT Front wiper switch OFF Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position Front wiper stop position OFF Front wiper stop position ON When hazard switch is not pressed OFF	ED WIDED I OW	Front wiper switch OFF	OFF
FR WIPER INT Front wiper switch HI ON FR WIPER INT Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP Any position OFF Front wiper stop position ON When hazard switch is not pressed OFF	FR WIFER LOW	Front wiper switch LO	ON
Front wiper switch HI ON FR WIPER INT Front wiper switch OFF Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP Any position other than front wiper stop position OFF Front wiper stop position ON When hazard switch is not pressed OFF	ED WIDED LII	Front wiper switch OFF	OFF
FR WIPER INT Front wiper switch INT ON Any position other than front wiper stop position FR WIPER STOP Front wiper stop position ON When hazard switch is not pressed OFF	FR WIPER III	Front wiper switch HI	ON
Front wiper switch INT ON Any position other than front wiper stop position OFF Front wiper stop position ON When hazard switch is not pressed OFF	ED WIDED INT	Front wiper switch OFF	OFF
FR WIPER STOP Front wiper stop position ON When hazard switch is not pressed OFF	FK WIPEK IN I	Front wiper switch INT	ON
Front wiper stop position ON When hazard switch is not pressed OFF HAZARD SW	ED WIDED STOD	Any position other than front wiper stop position	OFF
HAZARD SW	FK WIFEK STUP	Front wiper stop position	ON
When hazard switch is pressed ON	HAZADD CM	When hazard switch is not pressed	OFF
	HAZARU SW	When hazard switch is pressed	ON

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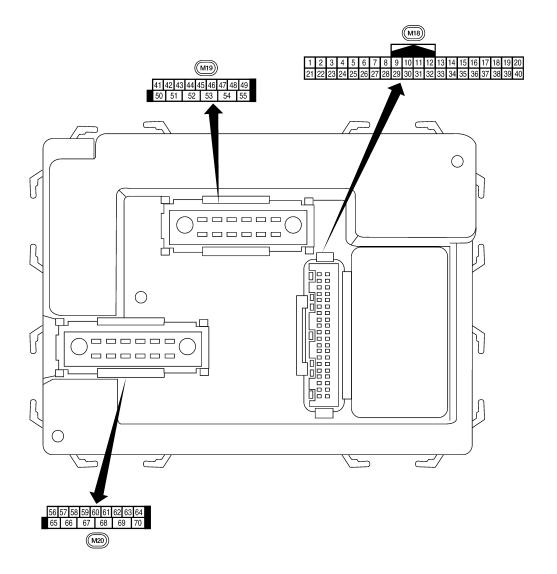
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Monitor Item	Condition	Value/Status
LIGHT SW 1ST	Lighting switch OFF	OFF
LIGHT SW 131	Lighting switch 1st	ON
HEAD LAMP SW1	Headlamp switch OFF	OFF
HEAD LAWF SWI	Headlamp switch 1st	ON
LIEAD LAMD CMO	Headlamp switch OFF	OFF
HEAD LAMP SW2	Headlamp switch 1st	ON
LII DE AM CVA	High beam switch OFF	OFF
HI BEAM SW	High beam switch HI	ON
IONI ONI CIM	Ignition switch OFF or ACC	OFF
IGN ON SW	Ignition switch ON	ON
IONI OW OAN	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
	LOCK button of Intelligent Key is not pressed	OFF
I-KEY LOCK	LOCK button of Intelligent Key is pressed	ON
	UNLOCK button of Intelligent Key is not pressed	OFF
I-KEY UNLOCK	UNLOCK button of Intelligent Key is pressed	ON
	Door key cylinder LOCK position	ON
KEY CYL LK-SW	Door key cylinder other than LOCK position	OF
	Door key cylinder UNLOCK position	ON
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
OIL PRESS SW	Ignition switch OFF or ACC Engine running	OFF
	Ignition switch ON	ON
000000000000000000000000000000000000000	Bright outside of the vehicle	Close to 5V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0V
	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
	Return to ignition switch to LOCK position	OFF
PUSH SW	Press ignition switch	ON
	Rear window defogger switch OFF	OFF
REAR DEF SW	Rear window defogger switch ON	ON
	Rear washer switch OFF	OFF
RR WASHER SW	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
	Rear wiper stop position	OFF
RR WIPER STOP	Other than rear wiper stop position	ON
	Rear wiper stop position	OFF
RR WIPER STP2	po. otop position	<u> </u>

Monitor Item	Condition	Value/Status
TRNK OPNR SW	When back door opener switch is not pressed	OFF
TRINK OF NIX SW	When back door opener switch is pressed	ON
TURN SIGNAL L	Turn signal switch OFF	OFF
TOTAL L	Turn signal switch LH	ON
TURN SIGNAL R	Turn signal switch OFF	OFF
TORN SIGNAL IX	Turn signal switch RH	ON
VEHICLE SPEED	While driving	Equivalent to speedometer reading

Terminal Layout



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Physical Values

	14.5		Signal		Measuring condition	· · · · · · · · · · · · · · · · · ·
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
1	BR/W	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
	DIVV	nation	Output	011	Door is unlocked (SW ON)	0V
2	SB	Combination switch input 5	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***5ms
3	G/Y	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms
4	Y	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***5ms SKIAS291E
5	G/B	Combination switch input 2				
6	V	Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 +-5ms SKIA5292E
					Rear window defogger switch ON	0V
9	GR/R	Rear window defogger switch	Input	ON	Rear window defogger switch OFF	5V
40	-	Llowerd lower flesh		055	ON (opening or closing)	0V
10	G	Hazard lamp flash	Input	OFF	OFF (other than above)	Battery voltage
11	0	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	R/L	Front door switch RH	Input	OFF	ON (open)	0V
			· 		OFF (closed)	Battery voltage
13	GR	Rear door switch RH	Input	OFF	ON (open) OFF (closed)	0V Battery voltage
15	L/W	Tire pressure warning check connector	Input	OFF	— —	5V
18	Р	Remote keyless entry receiver and optical sensor (ground)	Output	OFF	_	0V

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			Signal		Measuring condition	Б.
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
19	V/W	Remote keyless entry receiver (power supply)	Output	OFF	Ignition switch OFF	(V) 6 4 2 0 + 50 ms LIIA1893E
20	G/W	Remote keyless entry	Input	OFF	Stand-by (keyfob buttons released)	(V) 6 4 2 0 *********************************
20	3,11	receiver (signal)	put	911	When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2 0 *********************************
21	G	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, the return to battery voltage.
22	W/V	BUS	_	_	Ignition switch ON or power window timer operates	(V) 15 10 5 0 200 ms
23	G/O	Security indicator lamp	Output	OFF	Goes OFF → illuminates (Every 2.4 seconds)	Battery voltage → 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, the return to battery voltage.
					Rise up position (rear wiper arm on stopper)	0V
					A Position (full clockwise stop position)	0V
26	Y/L	Rear wiper auto stop switch 2	Input	ON	Forward sweep (counterclock- wise direction)	Fluctuating
					B Position (full counterclock- wise stop position)	Battery voltage
					Reverse sweep (clockwise direction)	Fluctuating
27	W/R	Compressor ON sig-	Input	ON	A/C switch OFF	5V
		nal		.,	A/C switch ON	0V

	Wire		Signal		Measuring condition	Reference value or waveform				
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)				
28	L/R	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage				
20	L/IX	1 Torit blower morntor	mput	ON	Front blower motor ON	0V				
29	W/B	Hazard switch	Innut	OFF	ON	0V				
29	VV/D	Hazaru Switch	Input	OFF	OFF	5V				
20	V/DD	Class batch switch	Innut	OFF	Glass hatch switch released	0V				
30	Y/BR	Glass hatch switch	Input	OFF	Glass hatch switch pressed	Battery				
32	R/G	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 +5ms SKIA5291E				
33	R/Y	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***5ms				
34	L	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 +-5ms SKIA5291E				
35	O/B	Combination switch output 2				0.0				
36	R/W	Combination switch output 1	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***5ms				
37	B/R	Key switch and igni-	Input	OFF	Intelligent Key inserted	Battery voltage				
		tion knob switch	p. 444		Intelligent Key inserted	0V				
38	W/L	Ignition switch (ON)	Input	ON	_	Battery voltage				
39	L	CAN-H	_	_	_	_				
40	Р	CAN-L	_	_	_	_				
42	GR	Glass hatch ajar switch	Input	ON	Glass hatch open	0V				
					Glass hatch closed	Battery				
43	R/B	Back door latch (door	Input	OFF	ON (open)	0V				
		ajar switch)			OFF (closed)	Battery voltage				

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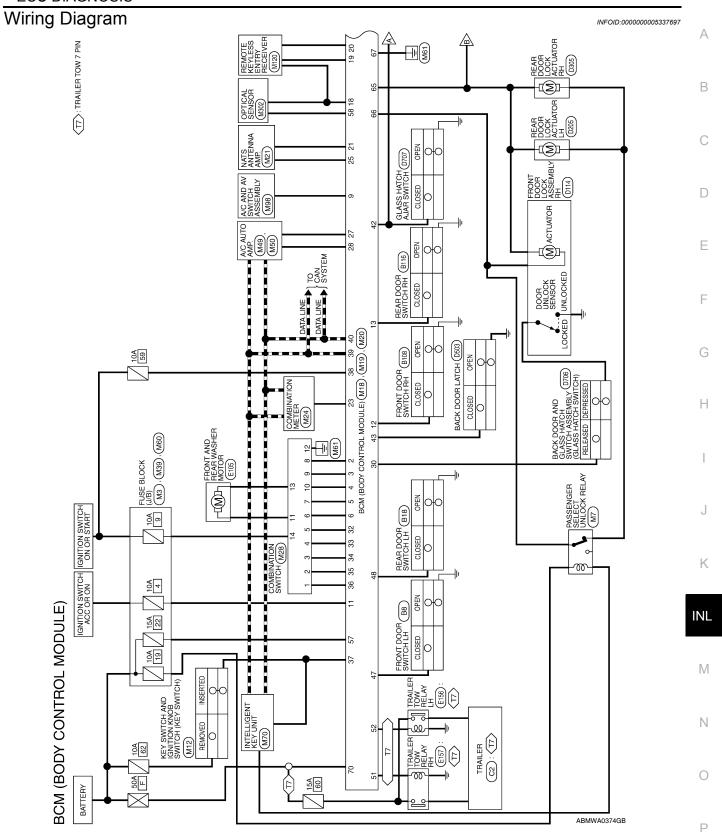
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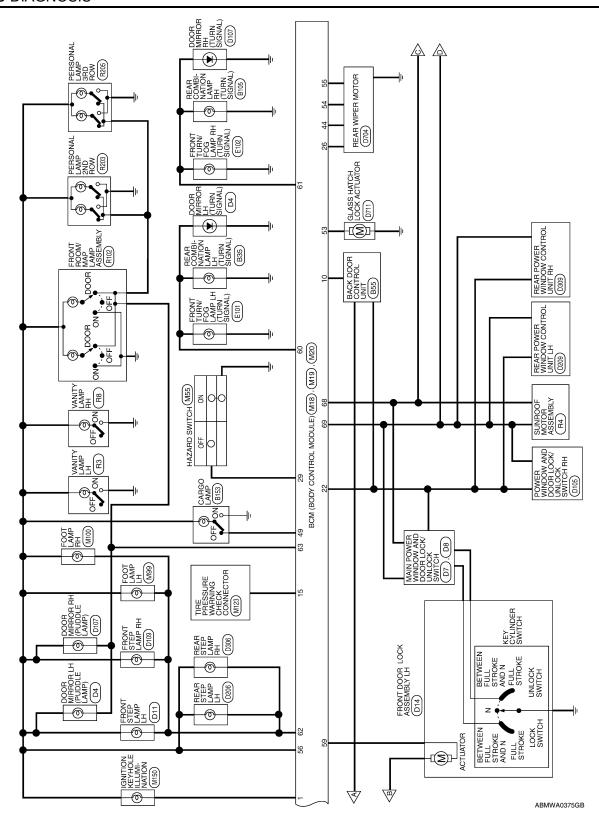
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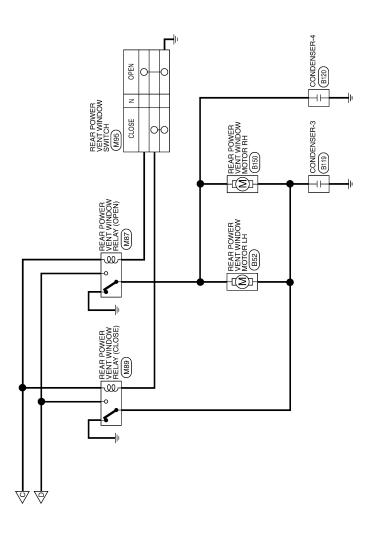
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	Wire		Signal		Measuring condition	Reference value or waveform			
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)			
					Rise up position (rear wiper arm on stopper)	0V			
					A Position (full clockwise stop position)	Battery voltage			
44	0	Rear wiper auto stop switch 1	Input	ON	Forward sweep (counterclockwise direction)	Fluctuating			
					B Position (full counterclockwise stop position)	0V			
					Reverse sweep (clockwise direction)	Fluctuating			
47	SB	Front door switch LH	Input	OFF	ON (open)	0V			
71	SD	Tront door switch Err	input	011	OFF (closed)	Battery voltage			
48	R/Y	Rear door switch LH	Input	OFF	ON (open)	0V			
70	101	real door switch En	прис	011	OFF (closed)	Battery voltage			
49	R	Cargo lamp	Output	OFF	Any door open (ON)	0V			
-7-0	- 1	Jaigo idilip		511	All doors closed (OFF)	Battery voltage			
51	G/Y	Trailer turn signal (right)	Output	ON	(V) 15 10 5 0 500 ms SKIA3009J				
52	G/B	Trailer turn signal (left)	Output	ON	Turn left ON	(V) 15 10 5 0 			
53	L/W	Glass hatch lock actu-	Output	OFF	Glass hatch switch released	0V			
55	L/VV	ator	Output	OFF	Glass hatch switch pressed	Battery voltage			
					Rise up position (rear wiper arm on stopper)	0V			
					A Position (full clockwise stop position)	0V			
54	Y	Rear wiper output cir- cuit 2	Input	ON	Forward sweep (counterclockwise direction)	0V			
					B Position (full counterclock- wise stop position)	Battery voltage			
					Reverse sweep (clockwise direction)	Battery voltage			
55	SB	Rear wiper output cir-	Output	ON	OFF	0V			
		cuit 1	-1		ON	Battery voltage			
56	R/G	Battery saver output	Output	OFF	30 minutes after ignition switch is turned OFF	0V			
				ON	_	Battery voltage			
57	Y/R	Battery power supply	Input	OFF	_	Battery voltage			

	Wire		Signal		Measuring con	dition	Reference value or waveform		
Terminal	color	Signal name	input/ output	Ignition switch	Operation	or condition	(Approx.)		
58	W/R	Ontical concer	lanut	ON	When optical s	sensor is illumi-	3.1V or more		
30	VV/K	Optical sensor	Input	ON	When optical s minated	sensor is not illu-	0.6V or less		
		Front door lock as-			OFF (neutral)		0V		
59	G	sembly LH actuator (unlock)	Output	OFF	ON (unlock)		Battery voltage		
60	G/B	Turn signal (left)	Output	ON	Turn left ON		(V) 15 10 50 500 ms SKIA3009J		
61	G/Y	Turn signal (right)	Output	ON	Turn right ON		(V) 15 10 500 ms SKIA3009J		
62	R/W	Step lamp LH and RH	Output	OFF	ON (any door	open)	0V		
		Stop lamp Errana (a)	Catput	0.1	OFF (all doors	s closed)	Battery voltage		
63	L	Interior room/map	Output	OFF	Any door	ON (open)	0V		
	_	lamp	- Carpar	.	switch	OFF (closed)	Battery voltage		
65	V	All door lock actuators	Output	OFF	OFF (neutral)		0V		
		(lock)			ON (lock)		Battery voltage		
66	G/Y	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		
					Within 45 second tion switch OF	onds after igni- F	Battery voltage		
68	W/L	Power window power supply (RAP)	Output	_	More than 45 s nition switch C	seconds after ig- OFF	0V		
						or LH or RH is r window timer	0V		
69	W/R	Power window power supply	Output	_			Battery voltage		
70	W/B	Battery power supply	Input	OFF			Battery voltage		







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BCM (BODY CONTROL MODULE) CONNECTORS

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

Connector Color WHITE

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Owe A location	Olyman Ivaline	ı	ı
Color of	Wire	-	ı
- F	erillia NO.	16	17

Connector No.	. M19	
Connector Name		BCM (BODY CONTROL MODULE)
Connector Color	lor WHITE	TE
昼	41 42 43	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55
Ϋ́.		
Terminal No. Wire	Color of Wire	Signal Name
41	_	-
42	GR	GLASS HATCH SW
•	!	

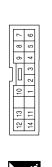
Signal Name	I	GLASS HATCH SW	BACK DOOR SW	REAR WIPER AUTO STOP SW1	l	ı	DOOR SW (DR)	DOOR SW (RL)	LUGGAGE LAMP OUTPUT	ı	TRAILER FLASH OUTPUT (RIGHT)	TRAILER FLASH OUTPUT (LEFT)	GLASS HATCH OPENER OUTPUT	REAR WIPER MOTOR OUTPUT 2	REAR WIPER MOTOR OUTPUT 1
Color of Wire	ı	GR	R/B	0	ı	ı	SB	R/Y	Ж	ı	G/Y	G/B	M	٨	SB
Terminal No.	41	42	43	44	45	46	47	48	49	20	51	52	53	54	55

Terminal No. 16 17	Color of Wire — — — — — — — — — — — — — — — — — — —	gnal Nam
8 6	P W/W	KEYLESS AND AUTO LIGHT SENSOR GND KEYLESS TUNER POWER SUPPLY OUTPUT
20	G/W	KEYLESS TUNER SIGNAL
21	G	IMMOBILIZER ANTENNA SIGNAL (CLOCK)
22	W/V	ANTI-PINCH SERIAL LINK (RX, TX)
23	G/0	SECURITY INDICATOR OUTPUT
24	ı	ı
25	BB	IMMOBILIZER ANTENNA SIGNAL (RX,TX)
26	Y/L	REAR WIPER AUTO STOP SW2
27	W/R	AIRCON SW
28	L/R	BLOWER FAN SW
29	W/B	HAZARD SW
30	Y/BR	GLASS HATCH OPENER
31	_	1
32	R/G	OUTPUT 5
33	R/Y	OUTPUT 4
34	L	OUTPUT 3
35	O/B	OUTPUT 2
36	R/W	OUTPUT 1
37	B/R	KEY SW
38	W/L	IGN SW
39	L	CAN-H
40	Ъ	CAN-L

							_								
Signal Name	KEY RING OUTPUT	INPUT 5	4 TUPUI	NPUT 3	2 TUPNI	I TUPNI	1	-	REAR DEFOGGER SW	INGS INPUT	ACC SW	DOOR SW (AS)	(AR) WS HOOD	_	TPMS (MODE TRIGGER SWITCH)
Color of Wire	BR/W	SB	G/Y	>	G/B	>	ı	I	GR/R	Э	0	R/L	GR	ı	L/W
Terminal No.	1	2	3	4	9	9	7	8	6	10	11	12	13	14	15

ABMIA1059GB

Connector No.	M28
Connector Name	Connector Name COMBINATION SWITCH
Connector Color WHITE	WHITE



	Signal Name	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5	OUTPUT 1	OUTPUT 2	OUTPUT 5	OUTPUT 4	OUTPUT 3	WASHER MOTOR	GND	WASHER MOTOR	NÐI
Color of	Wire	B/W	O/B	_	R/Υ	R/G	>	G/B	SB	G/Y	٨	W/A	В	W/R	B/L
	l erminal No.	-	2	က	4	5	9	7	8	6	10	Ξ	12	13	14

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



Signal Name	BATTERY SAVER OUTPUT	BAT (FUSE)	AUTO LIGHT SENSOR INPUT 2	DOOR UNLOCK OUTPUT (DR)	FLASHER OUTPUT (LEFT)	FLASHER OUTPUT (RIGHT)	STEP LAMP OUTPUT	ROOM LAMP OUTPUT	ı	DOOR LOCK OUTPUT (ALL)	DOOR UNLOCK OUTPUT (OTHER)	GND (POWER)	POWER WINDOW POWER SUPPLY (LINKED TO RAP)	POWER WINDOW POWER SUPPLY (BAT)	BAT (F/L)	
Color of Wire	R/G	Y/R	W/R	ō	G/B	G/Y	R/W	L	1	>	G/Y	В	M/L	W/R	M/B	
Terminal No.	56	22	58	59	09	61	62	63	64	65	99	29	89	69	20	

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Fail Safe

Fail-safe index

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

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< ECU DIAGNOSIS >

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

DTC Inspection Priority Chart

INFOID:0000000005337693

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 B2013: STRG COMM 1 B2552: INTELLIGENT KEY B2590: NATS MALFUNCTION
3	C1729: VHCL SPEED SIG ERR C1735: IGNITION SIGNAL
4	 C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1711: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FL C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32
B2190: NATS ANTENNA AMP	_	_	_	<u>SEC-31</u>

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	•
B2191: DIFFERENCE OF KEY	_	_	_	<u>SEC-34</u>	•
B2192: ID DISCORD BCM-ECM	_	_	_	<u>SEC-35</u>	-
B2193: CHAIN OF BCM-ECM	_	_	_	<u>SEC-37</u>	
B2552: INTELLIGENT KEY	_	_	_	<u>SEC-39</u>	
B2590: NATS MALFUNCTION	_	_	_	<u>SEC-40</u>	
C1708: [NO DATA] FL	_	_	_	<u>WT-14</u>	•
C1709: [NO DATA] FR	_	_	_	<u>WT-14</u>	•
C1710: [NO DATA] RR	_	_	_	<u>WT-14</u>	
C1711: [NO DATA] RL	_	_	_	<u>WT-14</u>	•
C1712: [CHECKSUM ERR] FL	_	_	_	<u>WT-16</u>	
C1713: [CHECKSUM ERR] FR	_	_	_	<u>WT-16</u>	-
C1714: [CHECKSUM ERR] RR	_	_	_	<u>WT-16</u>	-
C1715: [CHECKSUM ERR] RL	_	_	_	<u>WT-16</u>	-
C1716: [PRESSDATA ERR] FL	_	_	_	<u>WT-18</u>	
C1717: [PRESSDATA ERR] FR	_	_	_	<u>WT-18</u>	-
C1718: [PRESSDATA ERR] RR	_	_	_	<u>WT-18</u>	-
C1719: [PRESSDATA ERR] RL	_	_	_	<u>WT-18</u>	
C1720: [CODE ERR] FL	_	_	_	<u>WT-16</u>	-
C1721: [CODE ERR] FR	_	_	_	<u>WT-16</u>	-
C1722: [CODE ERR] RR	_	_	_	<u>WT-16</u>	-
C1723: [CODE ERR] RL	_	_	_	<u>WT-16</u>	-
C1724: [BATT VOLT LOW] FL	_	_	_	<u>WT-16</u>	•
C1725: [BATT VOLT LOW] FR	_	_	_	<u>WT-16</u>	•
C1726: [BATT VOLT LOW] RR	_	_	_	<u>WT-16</u>	-
C1727: [BATT VOLT LOW] RL	_	_	_	<u>WT-16</u>	-
C1729: VHCL SPEED SIG ERR	_	_	_	<u>WT-19</u>	
C1735: IGNITION SIGNAL	_	_	_	<u>WT-20</u>	

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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 Front room/map lamp assembly Personal lamp 2nd and 3rd row Cargo room lamp Front and rear step lamps Vanity mirror lamps Ignition keyhole illumination Puddle lamps Foot lamps	Harness between BCM and each interior room lamp BCM	Battery saver output/power supply circuit Refer to INL-17.
Some or all of the following interior room lamps do not turn ON/OFF • Puddle lamps	Harness between BCM and each door switch	Door switch circuit Refer to DLK-71.
 Front room/map lamp assembly Personal lamp 2nd row Personal lamp 3rd row 	Harness between BCM and each interior room lamp BCM	Interior room lamp control circuit Refer to <u>INL-19</u> .
Some or all of the following lamps do not turn ON/OFF • Front step lamps • Rear step lamps • Foot lamps	Harness between BCM and step lamps and foot lamps BCM	Step lamp circuit Refer to INL-22.
Cargo lamp does not turn ON/OFF	Harness between BCM and cargo lamp BCM	Cargo lamp control circuit Refer to INL-24.
Ignition keyhole illumination does not turn ON/OFF	Harness between BCM and ignition keyhole illumination BCM	Ignition keyhole illumination control circuit Refer to INL-26.
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to BCS-19, "INT LAMP: CON-SULT-III Function (BCM - INT LAMP)".
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to BCS-26, "BATTERY SAVER. : CONSULT-III Function (BCM - BATTERY SAVER)".

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-TFNSIONER"

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 Necessary for Steering Wheel Rotation After Battery Disconnect INFOID:0000000005221512

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYS-
- · Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be
- Perform the necessary repair operation.

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PRECAUTIONS

< PRECAUTION >

- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- Perform a self-diagnosis check of all control units using CONSULT-III.

General precautions for service operations

INFOID:0000000005146753

- 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.

ON-VEHICLE REPAIR

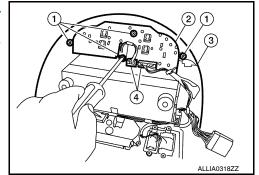
INTERIOR ROOM LAMP

Removal and Installation

MAP LAMP

Removal

- Remove overhead console (3). Refer to <u>INT-17</u>, "Removal and <u>Installation"</u>.
- 2. Disconnect connectors (4) and remove the map lamp screws (1), then remove map lamp (2) from overhead console.



Installation

Installation is in the reverse order of removal.

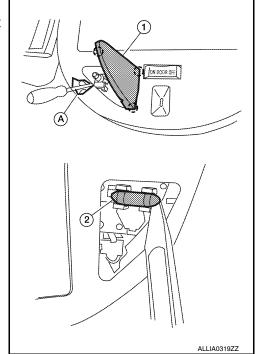
Bulb Replacement

- Using a suitable tool (A), remove map lamp lens (1).
 Pawl
- 2. 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

Removal

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to INT-17, "Removal and Installation".

Installation

Installation is in the reverse order of removal.

Bulb Replacement

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INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

1. Using a suitable tool (A), release the tabs and remove the vanity mirror lamp lens (1).

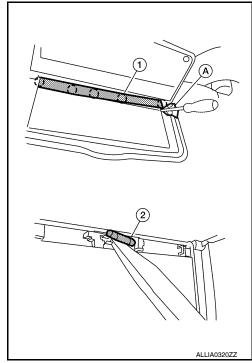
(): Pawl

2. Release one side of the bulb (2) from the tab, then pull straight 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 instrument lower panel RH and glove box. Refer to IP-17, "Removal and Installation".
- 2. Rotate glove box lamp socket and rotate counterclockwise to release from steering member.

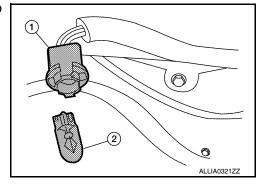
Installation

Installation is in the reverse order of removal.

Bulb Replacement

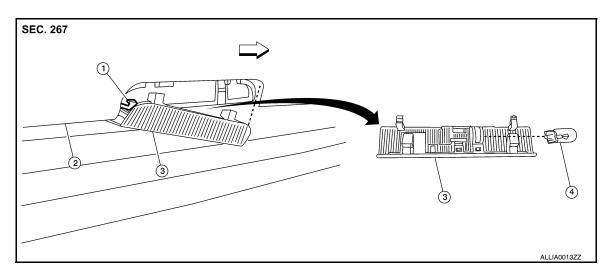
- Remove instrument lower panel RH and glove box. Refer to <u>IP-17, "Removal and Installation"</u>.
- 2. Pull bulb (2) straight out from glove box lamp socket (1) to remove.

Glove box lamp bulb : 12V - 3.4W



STEP LAMP

Removal



- Step lamp connector
- 2. Door finisher

3. Step lamp lens/socket

4. Step lamp bulb

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

Installation

Installation is in the reverse order of removal.

Bulb Replacement

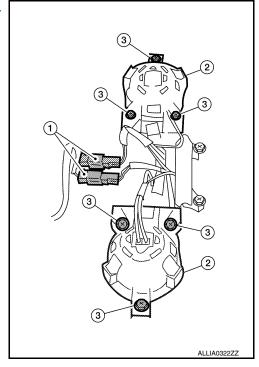
- Remove the step lamp lens/socket.
- 2. Pull the bulb straight out to remove.

Step lamp bulb : 12V - 3.8W

PERSONAL LAMP (if equipped)

Removal

- Remove overhead console. Refer to <u>INT-17</u>, "<u>Removal and Installation</u>".
- 2. Remove personal lamp screws (3).
- 3. Disconnect personal lamp electrical connectors (1), then remove personal lamps (2) from overhead console.



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INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

Installation is in the reverse order of removal.

Bulb Replacement

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

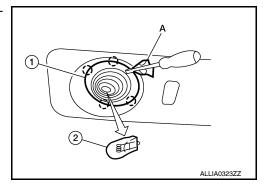
(): Pawl

2. Pull bulb (2) straight out to remove.

Personal lamp bulb : 12V - 6W

CAUTION:

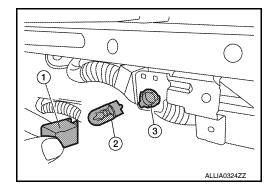
Wrap a cloth around tool to protect the housing and lens.



FOOTWELL LAMP

Removal

Rotate footwell lamp socket (3) counterclockwise from bracket.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

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

Footwell lamp bulb : 12V - 3.4W

ILLUMINATION

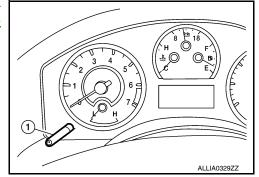
Removal and Installation

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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 MWI-100, "Removal and Installation".



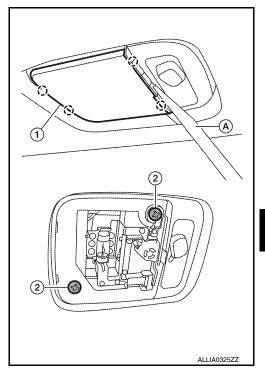
Installation

Installation is in the reverse order of removal.

CARGO LAMP (if equipped)

Removal

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

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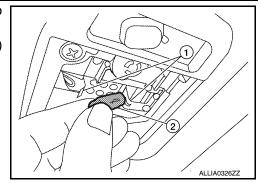
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ILLUMINATION

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

Cargo lamp bulb : 12V - 8W

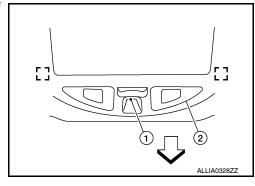


CONSOLE ILLUMINATION LAMP (if equipped)

Removal

The console illumination lamp (1) is replaced as part of the front roof console (2). Refer to INT-17, "Removal and Installation".

[]]: metal clip

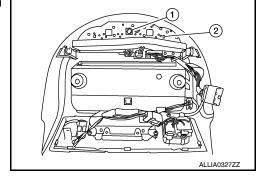


Installation

Installation is in the reverse order of removal.

Bulb Replacement

- 1. Remove front roof console. Refer to INT-17, "Removal and Installation".
- 2. 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	1.32
Glove box lamp	3.4
Step lamp	3.8
Personal lamp	6
Footwell lamp	3.4
Cargo lamp	8
Console illumination lamp	-

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

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