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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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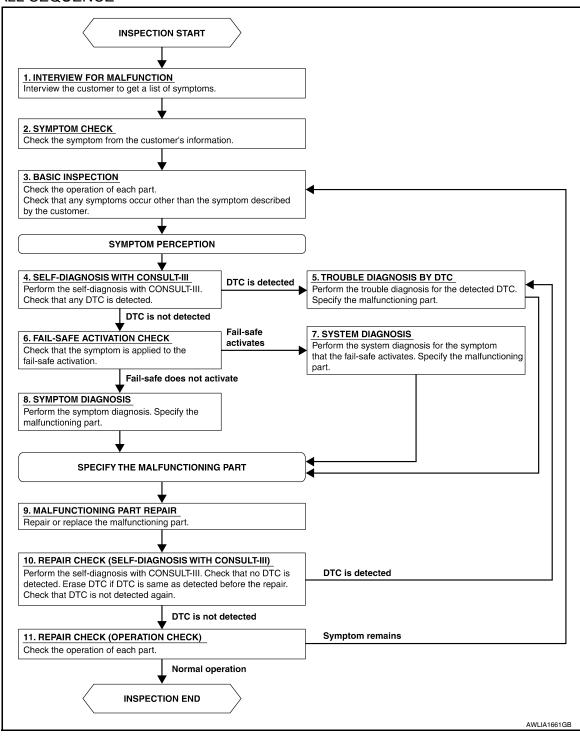
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OVERALL SEQUENCE



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.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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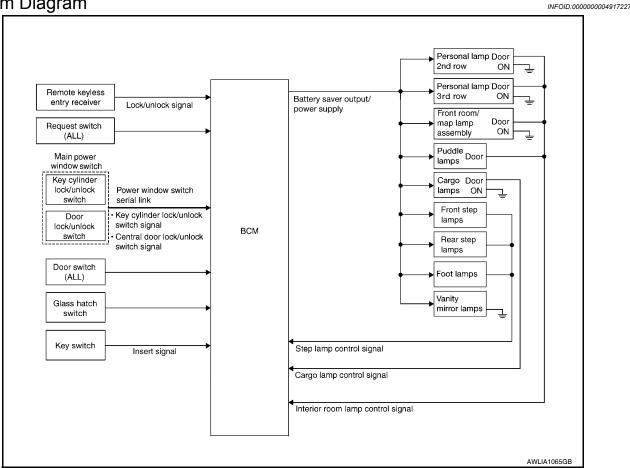
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FUNCTION DIAGNOSIS

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

INFOID:0000000004917228

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 (if equipped).
- 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 (if equipped).

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, the key switch and lock solenoid (without Intelligent Key) or the key switch and ignition knob switch (with Intelligent Key).

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 (with Intelligent Key), key fob (without 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 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 (with Intelligent Key), key fob (without 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.

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 (with Intelligent Key), key fob (without 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 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

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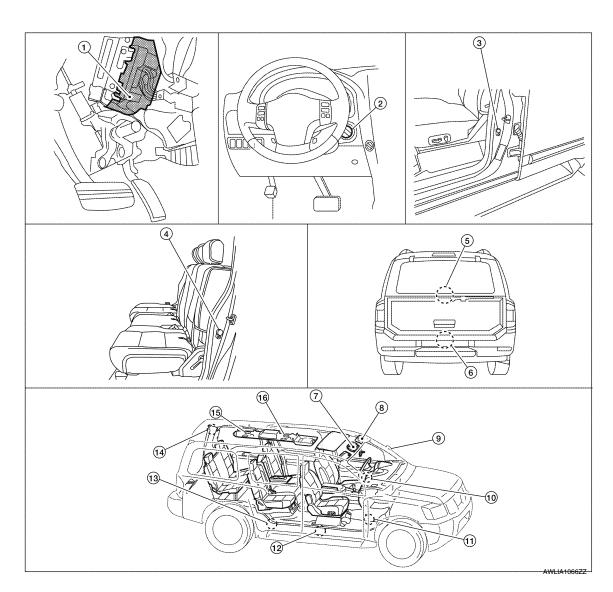
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- BCM M18, M19, M20 (view with instru- 2. ment lower panel LH removed)
- Key switch and ignition knob switch M12 (with Intelligent Key) Key switch and key lock solenoid M27 (without Intelligent Key)
- Rear door switch LH B18 Rear door switch RH B116
- 5. Glass hatch ajar switch D707
- Front door switch LH B8
 Front door switch RH B108
- Back door switch D502 (without power back door)
 Back door latch (door ajar switch)
 D503 (with power back door)

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< FUNCTION DIAGNOSIS >

- 7. Front room/map lamp assembly R102 8.
- 10. Ignition keyhole illumination M150
- 13. Rear step lamp LH D206 Rear step lamp RH D306
- 16. Personal lamp 2nd row R203
- Vanity lamp LH R3 Vanity lamp RH R8
- 11. Foot lamp LH M99 (if equipped)
 Foot lamp RH M100 (if equipped)
- 14. Cargo lamp B153

- Door mirror LH (puddle lamp) D4
 Door mirror RH (puddle lamp) D107
- 12. Front step lamp LH D11 Front step lamp RH D109
- 15. Personal lamp 3rd row R205

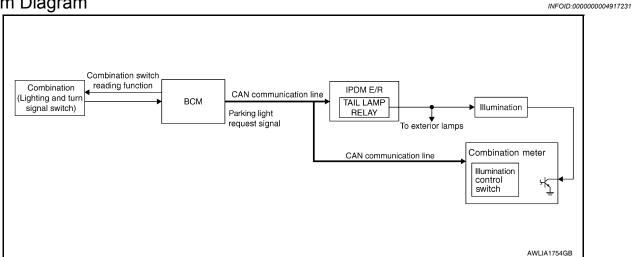
Component Description

INFOID:0000000004917230

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 (with Intelligent Key)	Provides key in ignition status to the BCM.	
Key switch and key lock solenoid (without Intelligent Key)		
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 (with power back door)	Provides back door OPEN/CLOSED status to the BCM.	
Back door switch (without power back door)	Provides back door Open/CLOSED status to the Bow.	
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

INFOID:0000000004917232

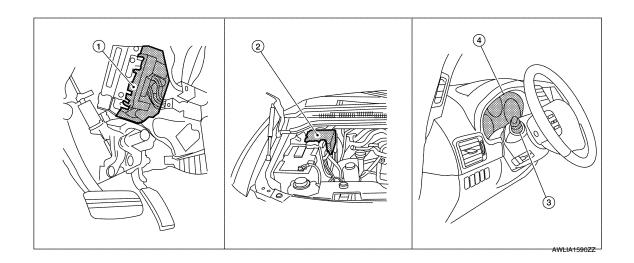
The illumination lamps operation is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives 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:0000000004917233



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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:0000000004917234

Part name	Description
ВСМ	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:0000000005199686

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-55, "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.

Custom	Cub quaters appetion items	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			×

^{*:} With Intelligent Key

INT LAMP

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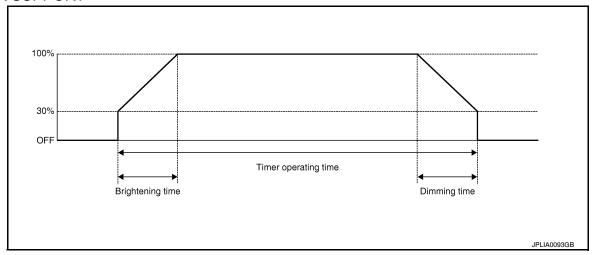
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< FUNCTION DIAGNOSIS >

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

INFOID:0000000005199687

WORK SUPPORT



Work Item	Setting item	Setting		
SET I/L D-UNLCK INTCON	ON*	With the interior 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.		
	MODE 1	0.5 sec.		
	MODE 2	1 sec.		
ROOM LAMP OFF TIME SET	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
KEYLESS LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver (integrated in the BCM)
KEYLESS UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver (integrated in the BCM)
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

^{*:} With Intelligent Key

ACTIVE TEST

Test Item	Operation	Description
IGN ILLUM	ON	Outputs the ignition keyhole illumination control signal to turn the ignition keyhole illumination lamp ON.
IGIN ILLOWI	OFF	Stops the ignition keyhole illumination control signal to turn the ignition keyhole illumination lamp OFF.
INT I AMP	ON	Outputs the interior room lamp control signal to turn the interior room lamps ON.
INT LAWF	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.
STEP LAWIP TEST	OFF	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.
LOGGAGE LAWIP TEST	OFF	Stops the luggage lamp control signal to turn the luggage lamp OFF.

BATTERY SAVER

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

INFOID:0000000005199688

WORK SUPPORT

Work Item	Setting Item	Setting		
	MODE 1*	30 min.		
ROOM LAMP TIMER SET	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

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< 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
KEYLESS LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver (integrated in the BCM)
KEYLESS UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver (integrated in the BCM)

^{*:} With Intelligent Key

ACTIVE TEST

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

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Regarding Wiring Diagram information, refer to BCS-50, "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?

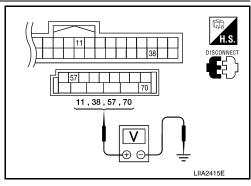
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

$2.\,$ CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM.
- Check voltage between BCM harness connector and ground.

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



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Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

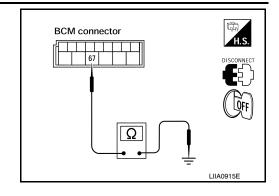
Check continuity between BCM harness connector and ground.

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:000000004917239

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:0000000004917240

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1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

(P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. 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 and puddle lamps.
- Front step lamps
- Rear step lamps
- Foot lamps (if equipped)
- Puddle lamps (if equipped)
- 4. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 5. While operating the test item, check that each interior room lamp turns ON/OFF.

OFF : Interior room lamp OFF
ON : Interior room lamp ON

Is the inspection result normal?

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

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

Diagnosis Procedure

INFOID:0000000004917241

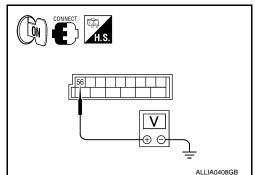
Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

(P)CONSULT-III

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

(+)	(-)	Test item	Voltage
Connector	Terminal	(-)	BATTERY SAVER	voltage
M20	56	Ground	OFF	0V
10120	30	Ground	ON	Battery voltage



Is the inspection result normal?

YES >> GO TO 2

NO >> Replace BCM. Refer to BCS-60, "Removal and Installation".

2. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

Turn ignition switch OFF.

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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

- 2. Disconnect the following connectors.
- BCM M20
- Ignition keyhole illumination
- Front step lamp LH
- Front step lamp RH
- Door mirror LH (with puddle lamps)
- Door mirror RH (with puddle lamps)
- Rear step lamp LH
- Rear step lamp RH
- Foot lamp LH (if equipped)
- Foot lamp RH (if equipped)
- 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	М	Each interior roo	om lamp		Continuit	
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 (with puddle lamps)	D4	12		
		Door mirror RH (with puddle lamps)	D107	12		
M20 56	Rear step lamp LH	D206	1			
	Rear step lamp RH	D306	1			
	Foot lamp LH (if equipped)	M99	1	Yes		
		Foot lamp RH (if equipped)	M100	1		
	Front room/map lamp assembly	R102	6			
			Vanity lamp LH	R3	1	
	Vanity lamp RH	R8	1	1 2 3		
	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

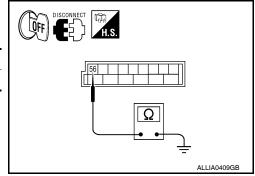
Check continuity between BCM connector M20 terminal 56 and ground.

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:0000000004917242

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

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

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

Component Function Check

INFOID:0000000004917243

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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 (if equipped)

${f 1}$.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

(P)CONSULT-III

1. Place the front room/map lamp assembly switch in the DOOR position.

- 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?

>> Interior room lamp control circuit is normal. YES

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

Diagnosis Procedure

INFOID:0000000004917244

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

CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

(P)CONSULT-III

- 1. Switch the front room/map lamp assembly switch to DOOR.
- Turn ignition switch ON.
- Select "INT LAMP" of BCM (INT LAMP) active test item.
- 4. 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	

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Is the inspection result normal?

>> Interior room lamp control circuit is operating normally.

Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2

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INTERIOR ROOM LAMP CONTROL CIRCUIT

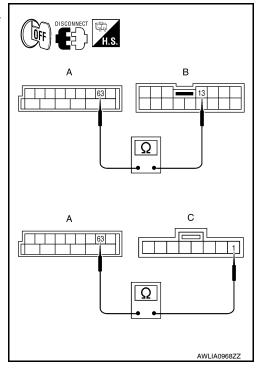
< COMPONENT DIAGNOSIS >

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

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M20, door mirror connectors (if equipped with puddle lamps) 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).

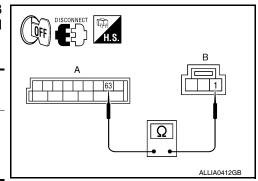
ВС	M	Interio	Continuity			
Connector	Terminal	Component	Connector	Terminal	Continuity	
		Door mirror LH (if equipped with puddle lamps)	D4 (B)	13		
M20 (A)	63	Door mirror RH (if equipped with puddle lamps)	D107 (B)	13	Yes	
		Front room/map lamp	R102 (C)	1		

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	CM	Interior room lamp			Continuity
Connector	Terminal	Component	Connector	Terminal	Continuity
M20 (A)	63	Personal lamp 2nd row	R203 (B)	1	Yes
WZ0 (A)	03	Personal lamp 3rd row	R205 (B)	1	163



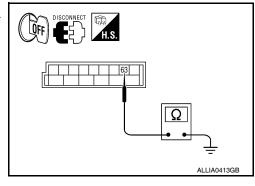
Is the inspection result normal?

- YES >> Check interior room lamps for an open. If OK, replace BCM. Refer to <u>BCS-60</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>EXL-146</u>, "Removal and <u>Installation"</u>.
- 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 (if equipped with puddle lamps) and 2nd and 3rd row personal lamp connectors.
- 3. Switch the front room/map lamp assembly switch to ON position.
- Check continuity between BCM connector M20 terminal 63 and ground.

Connector	Terminal	_	Continuity
M20	63	Ground	No



Is the inspection result normal?

INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

YES >> Check interior room lamps for a short circuit. If OK, replace BCM. Refer to <u>BCS-60, "Removal and Installation"</u>. If NG, replace interior room lamp. Refer to <u>INL-77, "Removal and Installation"</u> or <u>EXL-146, "Removal and Installation"</u>.

NO >> Repair the harness or connectors.

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STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

STEP LAMP CIRCUIT

Description INFOID:000000004917245

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

Component Function Check

INFOID:0000000004917246

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 (if equipped)

1. CHECK STEP LAMP OPERATION

(P)CONSULT-III

- Turn ignition switch ON.
- 2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check that the front step lamps, rear step lamps and foot lamps (if equipped) 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:0000000004917247

Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

1. CHECK STEP LAMP OUTPUT

(P)CONSULT-III

- 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 connector M20 terminal 62 and ground.

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

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Is the inspection result normal?

YES >> Step lamp control circuit is operating normally.

Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2

CHECK STEP LAMP OPEN CIRCUIT

STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

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

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

Is the inspection result normal?

YES >> Check step lamp or foot lamp for an open. If OK, replace BCM. Refer to <u>BCS-60</u>, "Removal and Installation". If NG, replace step lamp or foot lamp. Refer to <u>INL-77</u>, "Removal and Installation".

NO >> Repair harness or connectors.

3.CHECK STEP LAMP SHORT CIRCUIT

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

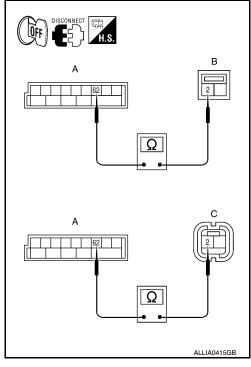
Connector	Terminal	_	Continuity
M20	62	Ground	No

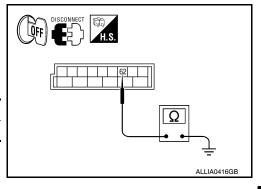
Is the inspection result normal?

YES >> Check step lamp or foot lamp for a short circuit. If OK, replace BCM. Refer to <u>BCS-60</u>, "Removal and Installation". If NC replace step lamp or foot lamp. Refer to INI.

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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CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

CARGO LAMP CONTROL CIRCUIT

Description INFOID:000000004917248

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

Component Function Check

INFOID:0000000004917249

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.
- 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-24, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004917250

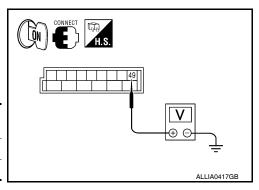
Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

1. CHECK CARGO LAMP OUTPUT

(P)CONSULT-III

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

Connector	Terminal	_	LUGGAGE LAMP TEST	Voltage
M19	49	Ground	ON	0V
IVITS	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	СМ	Cargo	o lamp	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19 (A)	49	B153 (B)	1	Yes

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Is the inspection result normal?

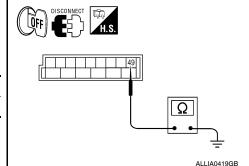
YES >> Check cargo lamp for an open. If OK, replace BCM. Refer to BCS-60, "Removal and Installation". If NG, replace cargo lamp. Refer to INL-81. "Removal and Installation".

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-60, "Removal and Installation". If NG, replace cargo lamp. Refer to INL-81, "Removal and Installation".

NO >> Repair harness or connectors.

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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description INFOID:000000004917251

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

Component Function Check

INFOID:0000000004917252

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:0000000004917253

Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

1. CHECK IGNITION KEYHOLE OUTPUT

(P)CONSULT-III

- Turn ignition switch ON.
- 2. 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.

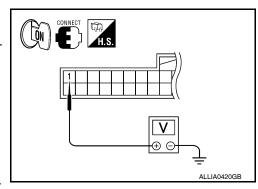
Connector	Terminal	_	IGN ILLUM	Voltage
M18	1	Ground	ON	0V
IVITO	'	Ground	OFF	Battery voltage

Is the inspection result normal?

YES >> Ignition keyhole illumination circuit is operating normally. Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2

2.CHECK IGNITION KEYHOLE ILLUMINATION OPEN CIRCUIT

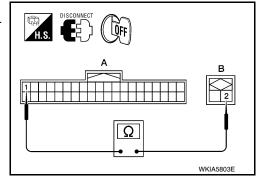


IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< 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	ole illumination	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M18 (A)	1	M150 (B)	2	Yes



Is the inspection result normal?

YES >> Check the ignition keyhole illumination for an open. If OK, replace BCM. Refer to <u>BCS-60</u>, <u>"Removal and Installation"</u>. If NG, replace ignition keyhole illumination.

NO >> Repair harness or connectors.

3.check ignition keyhole illumination short circuit

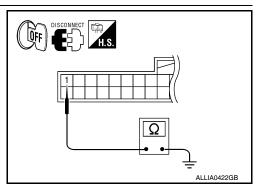
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
- 3. Check continuity between BCM connector M18 terminal 1 and ground.

Connector	Terminal	_	Continuity
M18	1	Ground	No

Is the inspection result normal?

YES >> Check the ignition keyhole illumination for a short circuit. If OK, replace BCM. Refer to <u>BCS-60</u>, "Removal and Installation". If NG, replace ignition keyhole illumination.

NO >> Repair harness or connectors.



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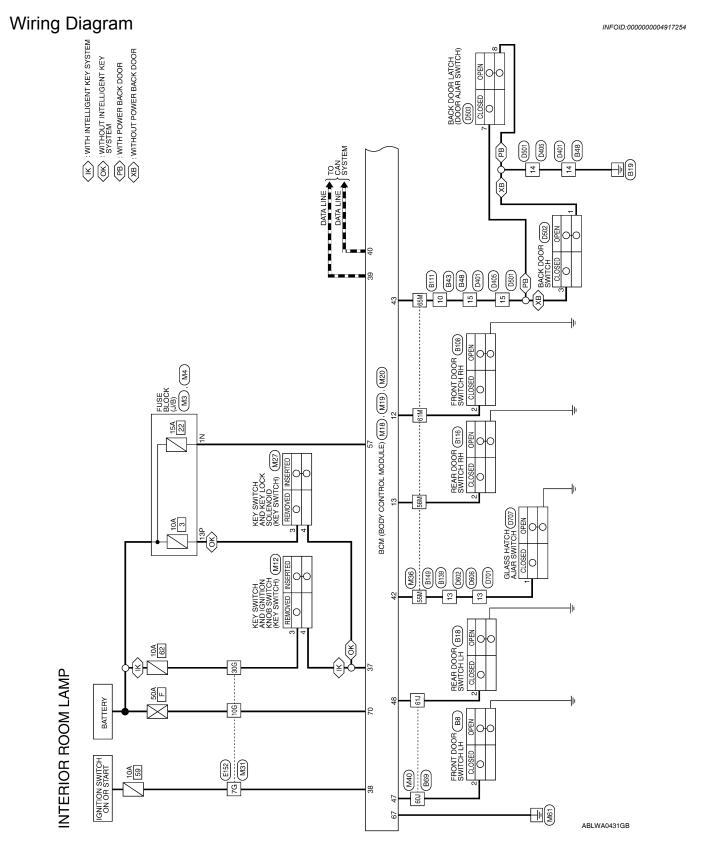
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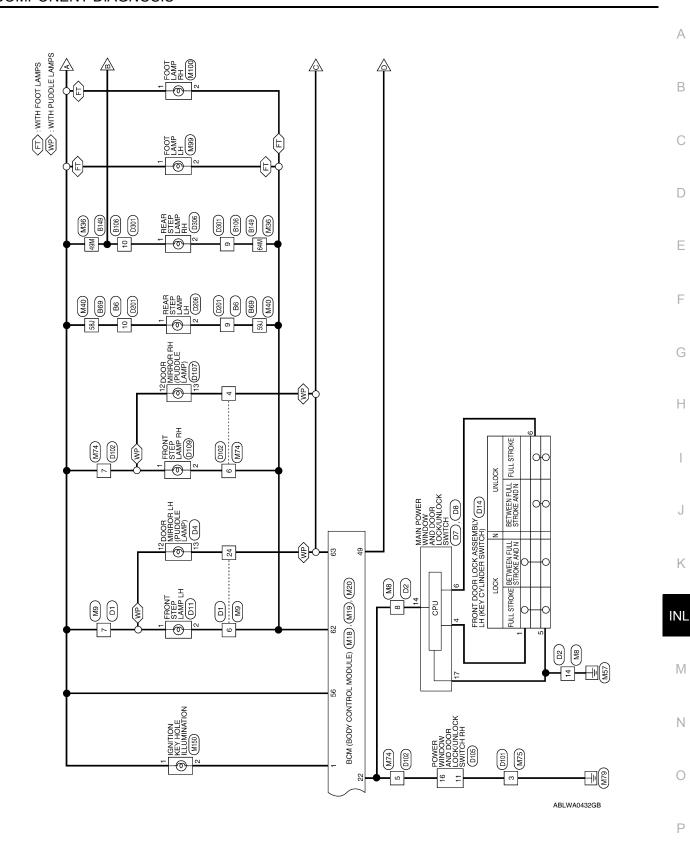
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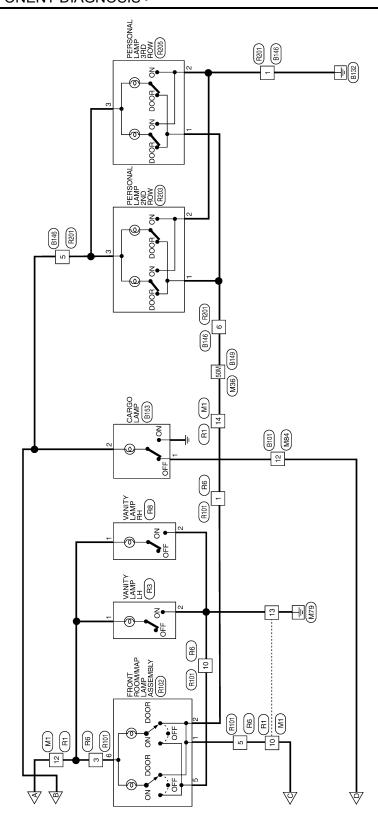
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< COMPONENT DIAGNOSIS >

Connector Name FUSE BLOCK (J/B)

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Connector No.

Connector Color WHITE

2N 1N 2N 1N 1N 2N 7N 6N 5N 4N

INTERIOR ROOM LAMP CONNECTORS

M3	connector Name FUSE BLOCK (J/B)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	
Connector No. M1	Connector Name WIRE TO WIRE	Connector Color WHITE	

E TO WIRE	TE	12 11 10 9 8 8 11	Signal Name	I	ı	ı	I
ne WIR	or WHI	16 15 14 13	Color of Wire	_	B/G	В	Œ
Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire	10	12	13	14

Terminal No. Color of Signal Name	ı	
Color of Wire	Д	
Terminal No.	13P	
Terminal No. Color of Signal Name	1	
Color of Wire	Y/R	
Terminal No.	1N Y/R	

	M12	Connector Name KEY SWITCH AND IGNITION	KNOB SWITCH
	Connector No. M12	Connector Name	
	M9	WIRE TO WIRE	BROWN
	Connector No. M9	Connector Name WIRE TO WIRE	Connector Color BROWN
	M8	WIRE TO WIRE	WHITE
	Connector No. M	Connector Name WIRE TO WIRE	Connector Color WHIT

Connector Color GRAY

	RE TO WIRE	OWN	7	Signal Name	-	-	-
	me WIF	lor BR	10 9 8 7 23 22 21 20	Color of Wire	R/W	R/G	7
	Connector Name WIRE TO WIRE	Connector Color BROWN	H.S.	Terminal No. Wire	9	7	24
ONI IND	Connector Name WIRE TO WIRE	Connector Color WHITE	(1)	Terminal No. Wire Signal Name	8 W/V -	14 B –	
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Signal Name	I	l	
Color of Wire	\	B/R	
Terminal No.	3	4	

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Signal Name	ı	ı	
Wire	N/M	В	
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< COMPONENT DIAGNOSIS >

Connector No. Mag	Connector Name	Connector Color BLACK	156 57 58 59 60 10 10 10 10 10 10 10	Terminal No. Wire Signal Name	26	57 Y/R	62	63 L ROC	67 B GND (POWER) 70 W/B RAT (F/1)				المارين المارين	Terminal No. Wire Signal Name	7G W/L -	10G W/B –	30G Y –		10 110	:8331G	30	26 516	529	
Connector No. M19	le l	Connector Color WHITE	41 42 43 44 45 46 47 48 48 50 51 52 55 54 55	Terminal No. Wire Signal Name	GR	R/B	4/ SB DOOR SW (DR)	<u> </u>					Oly schools	Compositor Name Annual Towns	Connector Color Multe	_		5G 4G 3G 2G 1G 10G 9G 8G 7G 6G	21G 20G 19G 17G 16G 15G 14G 13G 12G 11G	416 406 396 386 376 369 386 346 336 326 316	50G 49G 48G 47G 46G 45G 44G 43G 42G	616 606 596 586 576 566 556 546 536 526 516	705 685 685 675 665 655 645 635 6	756 746 736 726 716
Connector No.	-	Connector Color WHITE	H.S.	Color of	Signal Name	1 BK/W KEY RING OUTPUI		W/V ANTI-PINCH SEI	37 B/R KEY SW	38 W/L IGN SW	39 L CAN-H	40 P CAN-L	Connador No Maz	Connector Name KEY CAMITOLIAND KEY	LOCK SOLENOID	Connector Color WHITE		H.S.		Terminal No. Vire Signal Name	٦ د	4 B/R –		ISBLIA140

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Signal Name	В
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otor Na No No No No No No No No No No No No No	D
Conne	Е
	F
M40 M40 MHE TO WIRE MHE	G
M40 M40 M40 M41TE Connector No. M40 M41TE M41T	Н
No. Color of R/G SB SB SW R/Y R/	I
Connector No. Connector Name Connector Color Terminal No. Co 59J 61J 61J 61J 61J 61J 61J 61J 61J 61J 61	J
	К
M36	INL M
O. M36 Same WHRE T Solor WHITE Solor WHITE Solor S	N
Connector No. Connector No. Connector No. Terminal No. Solv Solv G4M R 64M R 65M G64M R R 65M R	0
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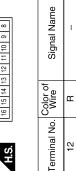
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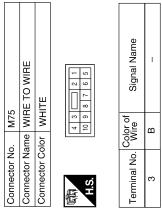




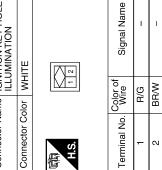














Connector Name FOOT LAMP RH	tor Color BROWN		Terminal No. Wire Signal Name	R/G –	
Connector N	Connector Color	H.S.	Terminal No.	1	





Signe		
Color of Wire	B/G	B/W
Terminal No.	1	2

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Connector No. M100

< COMPONENT DIAGNOSIS >

		А
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B6 WIRE TO WIRE OWIRE OWIRE	Signal Name	С
Connector No. B6 Connector Name WIRE TO WIRE Connector Color WHITE Signal No. Color of Signal No. Wire Signal No. PW PW PW PW PW PW PW P	Connector No. B43 Connector Name WIRE TO WIRE Connector Color WHITE To 6 5 4	D
Connector No. Connector Name Connector Color Terminal No. 9 R 9 R	Connector No. Connector Colo Connector Colo Terminal No. To	Е
		F
адв	TTCH LH	G
Signal Name	Connector No. B18 Connector Name REAR DOOR SWITCH LH Connector Color WHITE A.S. Color of Signal Name 2 R/Y -	Н
Color of W/B W/W	Vo. B18 NHITE Solor of Mire BAR D Nire BAR D NHITE Solor of BAR D NHITE	I
Terminal No. 7G 7G 30G	Connector No. Connector Name Connector Name Connector Name Connector Name Connector No. Color Terminal No. Color 2 F	J
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5G 10G 10G	SWITCH LH	INL
Connector No. E152 Connector Name WIRE TO WIRE Connector Color WHITE 16 26 36 46 56 16 76 86 96 106 226 236 246 226 286 276 286 286 306 226 236 346 356 346 386 376 386 386 376 316 326 336 346 376 386 386 376 386 386 376 316 326 336 346 356 366 576 586 586 576 \$16 526 536 546 556 566 576 586 586 576 \$16 526 536 546 566 566 576 586 586 576 \$176 726 736 746 756 786 786 886 986 776 \$176 776 776 776 776 776 776 776 776 776	Signal Signal	M
110 P. E 152 1 Name WIRE 110 Ize	No. B8 PRC Color of Wire S8 S8	Ν
Connector No. Connector Name Connector Color	Connector No. Connector Name Connector Color H.S.	0
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Connector No. B48	Connector No. B69	Terminal No. Wire Signal Name	
Compactor Color WINE TO WINE	Consolin Value WIRE TO WIRE	58J R/G -	
	_	59J R/W –	
		_ 8S 609 L	
10 9 8 7 6 5 4 3 2 1 18 17 16 15 14 13 12 11	11 21 31 41 51	61J R/Y –	
	64 73 84 94 103		
Terminal No. Color of Signal Name	(11) [12) [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [22] [23] [24] [25] [25] [25] [25]		
14 B –	31.) 32.) 33.) 34.) 35.) 38.) 38.) 38.) 39.) 40.) 41.)		
15 R/W –	42J 43J 44J 46J 47J 48J 49J 50J		
	[51] 52J 53J 54J 55J 55J 55J 55J 55J 58J 59J 60J 61J 61J 62J 62J 62J 62J 62J 62J 62J 62J 62J 62		
	L2T L2T L2T L1T		
	(108 per per per		
Connector No R101	Connector No B106	Connector No. B108	
1	1	9	표
Connector Color WHITE	Connector Color WHITHE	Connector Color WHITE	
H.S.	H.S. 109876 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H.S.	
Terminal No. Wire Signal Name	Terminal No. Wire Signal Name	Terminal No. Wire Signal Name	
12 R –	9 R/W –	2 R/L –	
	10 R/G –		

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< COMPONENT DIAGNOSIS >

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Signal Name	В
B139 WINE TC WHITE WHI	C
Connector No. Connector Name Connector Name Connector Name Connector Color 13 Color 13 Color 149M Fold 55M Color 55M Color 64M Fold Fold 64M Fold	E
	F
CH RH (19M 20M 21M	G
Connector No. B116 Connector Name REAR DOOR SWITCH RH Connector Color WHITE 2 GR Signal Name Connector No. B149 Connector	H
No. B146 No. WHIT No. Wire No.	
Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. A.S. H.S. H.S. Imaginaria	J
	К
No. B111 Name WIRE TO WIRE Color WHITE 1 2 3	INL M
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< COMPONENT DIAGNOSIS >

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Connector No. R3 Connector Name VANITY LAMP LH Connector Color WHITE	[N	Signal Name	Connector No. R101 Connector Name WIRE TO WIRE Connector Color WHITE (1 2 3 1 4 5 6 7 1 1 2 3 1 4 1 5 1 6 7 1 1 2 3 1 4 1 5 1 6 7 1 5 1 6 1 7 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	Signal Name	1 1	1	ı
ame VAl		Color of Wire R/G B	0. R101	Color of Wire	- R	-	<u>a</u>
Connector No. Connector Name Connector Color	H.S.	Terminal No.	Connector No. Connector Name Connector Color	Terminal No.	- ო	2	10
				0			
R1 WIRE TO WIRE WHITE	2 3 mm 4 5 6 7 9 10 11 12 13 14 15 16	Signal Name	R8 WHITE	of Signal Name	1	ı	
Connector No. F	斯 H.S.	Terminal No. Wire 10 L 12 R/G 13 B 14 R	Connector No. R8 Connector Name VANITY LAMP RH Connector Color WHITE H.S.	Color of Wire	1 R/G	2 B	
B153 CARGO LAMP WHITE	2	Signal Name	R6 WIRE TO WIRE WHITE 5 4 3 2 1 10 9 8	Signal Name	ı	1	1
		Color of Wire R R/G		Color of Wire	æ	R/G	_
ctor No. ctor Name		al No.	ctor No.	nal No.			

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Connector No. F1/02 Conn			А
PLAMP Connector No. R201 Connector No. R202 Connector No.	φ <u>ε</u>	9E	В
Connector No. R201 Connector No. R201 Connector Name Connector Color RRW Cara Cara Connector Name Conne	Signal Nar	Signal Nat	С
Connector No. R201 Connector No. R201 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color BROWN Color of Signal Name Terminal No. Color of BROWN Connector Name WIRE TO WIRE Signal Name Connector Name WIRE TO WIRE Connector No. D1 Connector No. D1 Connector No. D1 Connector No. D1 Connector No. Color of Connector No. Connector No. Color of Connector No. Connector No. Color of Connector No. Connector		10. D2 D2 D2 D2 D2 D2 D3 D3	D
Connector No. R201	Connector N Connector N Connector C Terminal No 1 3 3	Connector N Connector C Connector C Terminal No 8 8 14	Е
Connector No Conne			F
Connector No Conne	ame	ame	G
Connector No Conne	Signal N	WWN Signal N Signal N	Н
K ATT AMP AND	No. R201 R	No. Name WIR Color BRC Color BRC WIR RW	I
INT	Connector Connector Terminal N 5 6	Connector Connector Connector Terminal N 6 6 7 7 24	J
a_			К
Connector No. R102 Connector Name FRONT ROON ASSEMBLY Connector Color GRAY Terminal No. Wire Signa 5 B B COND Connector Name PERSONAL LA Connector Name PERSONAL LA Terminal No. Wire Signa 1 R GND Connector Name PERSONAL LA 3 R/G Terminal No. Wire Signa 1 R 2 B 3 R/G Connector Name PERSONAL LA 3 R/G Signa 3 R/G Signa	AMAP LAMP I Name OR BATT THRU_SW SND BAT	Name	INL
Connector Name Fig. Connector Name Fig. Connector Color G. S. B.	AAY AA A B B B B B B B B B B B B B B B B	SOSONAL LA ROW HITE Signa	M
Connect Connec		or Name PE	N
	Connect Connect Connect Termina Termina 5 5 5 5 6 6	Connectal Connec	0

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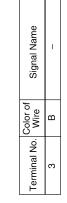
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	Connector Name AND DOOR LOCK/UNLOCK SWITCH	IITE
Connector No. D8	Connector Name ANI SW	Connector Color WHITE
ŏ	WER WINDOW IR LOCK/UNLOCK	ŏ

Signal Name	GND
Color of Wire	В
No.	

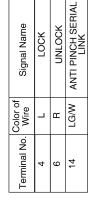


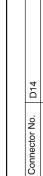


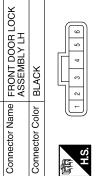




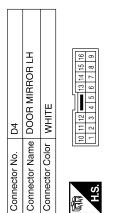








Signal Name	LOCK	GND	UNLOCK
Color of Wire	_	В	В
Terminal No.	-	5	9



Signal Name	ı	-	
Color of Wire	R/G	٦	
Terminal No.	12	13	

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

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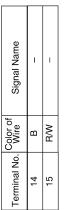
Connector No. D107 Connector Name DOOR MIRROR RH Connector Color WHITE 10 11 12 14 15 6 7 8 9	Terminal No. Wire Signal Name 12 R/G	Connector No. D206 Connector Name REAR STEP LAMP LH Connector Color WHITE	Color of Signal Signal	2 RW -
Connector No. D105 Connector Name DOOR LOCK/UNLOCK SWITCH RH Connector Color WHITE	Terminal No. Wire Signal Name 11 B GND 16 LG/W ANTI PINCH SERIAL LINK	Connector No. D201 Connector Name WIRE TO WIRE Connector Color WHITE	a No	10 R/G -
Connector No. D102 Connector Name WIRE TO WIRE Connector Color BROWN 2 3 4 5 6 7 8 9	Terminal No. Color of Wire Signal Name 4 L - 5 LG/W - 6 R/W - 7 R/G -	Connector No. D109 Connector Name FRONT STEP LAMP RH Connector Color WHITE	al No. Wire Signal	2 RW -

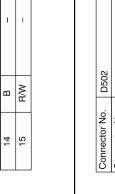
Revision: April 2009 INL-41 2010 Armada

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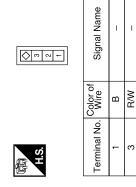


14 15 16 17 18 10 10	Signal Name
1 12 14 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Color of Wire
H.S.	Terminal No. Wire









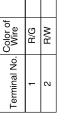




Signal Name	1	İ
Color of Wire	В	R/W
erminal No.	14	15







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Signal Name

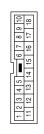


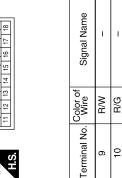
D501



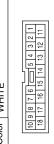
Terminal No. 14 15	Color o Wire	В	R/W
	Terminal No.	14	15

Connector No. D301 Connector Name WIRE TO WIRE Connector Color WHITE	D301 ne WIRE TO WIRE or WHITE 23 415 6 7 8 9 10
S I	4 15





D405	WIRE TO WIRE	WHITE
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE





Signal Name	I	1
Color of Wire	В	B/W
Terminal No.	14	15

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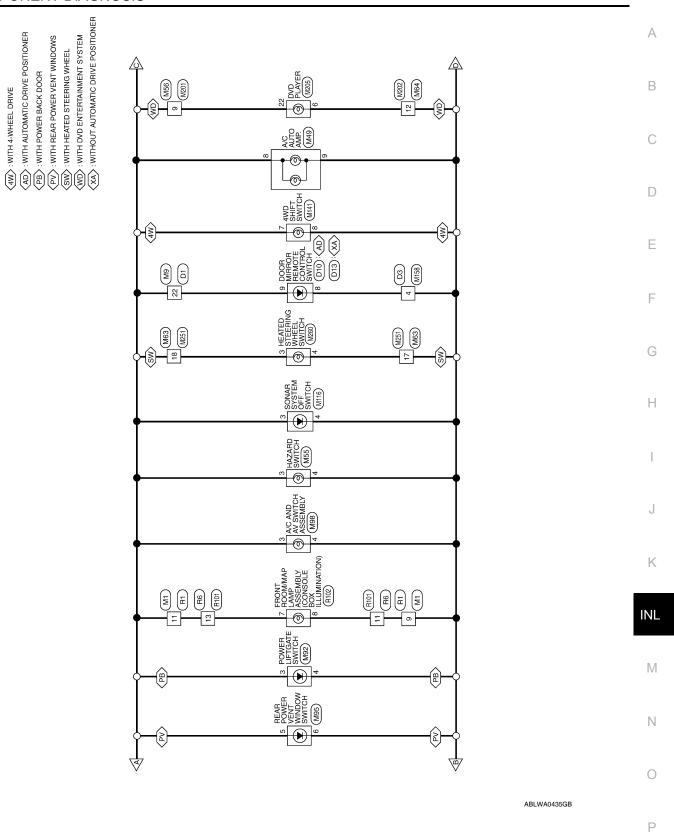
Connector No. D606 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Color of Wire Signal Name		
Connector No. D602 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Color of Signal Name 13 GR -	Connector No. D707 Connector Name GLASS HATCH AJAR SWITCH Connector Color BLACK Terminal No. Wire Signal Name	
Connector No. D503 Connector Name BACK DOOR LATCH Connector Color WHITE	Terminal No. Color of Wire Signal Name 7 R/W DOOR AJAR SW 8 B GND	Connector No. D701	

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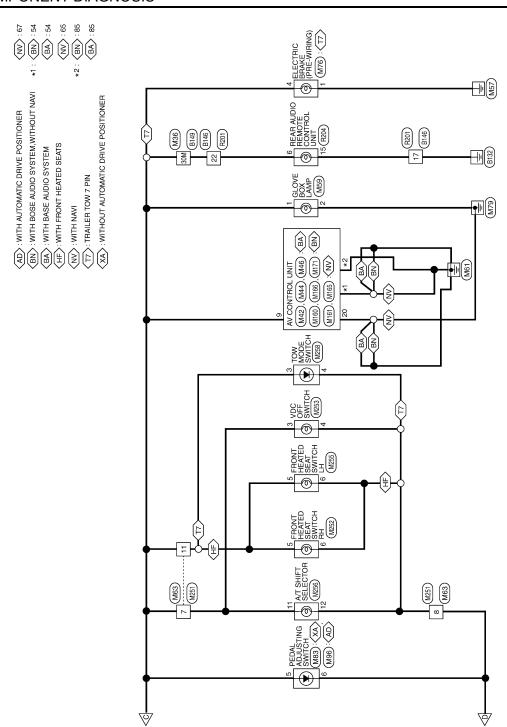
BATTERY

ILLUMINATION Wiring Diagram INFOID:0000000004917255 COMBINATION SWITCH (SPIRAL CABLE) 7 (M30), (M102)* COMBINATION METER (M23), (M24) FUSE (J/B) (M4) 10A UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) METER ILLUMINATION 10A IPDM E/R (INTELLIGENT POWER DISTREBUTION MODULE ENGINE ROOM) (E122), (E123) (M31) E152 40A DATA LINE W THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION. BCM (BODY CONTROL MODULE) (M18) 1 2 3 4 5 6 7 10 9 COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH)(M28) IGNITION SWITCH ON OR START 10A ILLUMINATION E152 50A

ILLUMINATION



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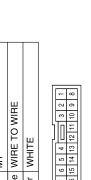
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Connector Name WIRE TO WIRE
Connector Color BROWN

Connector No. M9

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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	
Į	Ö	O	ΙŌ	



16 15 14 13 12 11 10 9 8	Signal Name	1	
16 15 14 1	Color of Wire	BR	č
H.S.	Terminal No.	6	7

Signal Name	_	
Color of Wire	B/L	
Terminal No.	22	

Signal Name	Î	Î
Color of Wire	7/O	Ь
Terminal No.	5P	13P

Signal Name	I	I	
Color of Wire	J/O	۵	
Terminal No.	5P	13P	

Terminal No. Wire 5P O/L 13P P

Signal Name	I	_
Color of Wire	BR	B/L
erminal No.	6	11

Connector No.		M20	
Connector Name	аше	MOI MOI	BCM (BODY CONTROL MODULE)
Connector Color		BLACK	CK
H.S.		56 57 58 65 66	56 57 58 59 60 61 62 63 64 65 6 6 7 68 69 70
Terminal No.	Color of Wire	r of	Signal Name
29	В		GND (POWER)
20	M/B	Д	BAT (F/L)

Signal Name	INPUT 5	INPUT 4	INPUT 3	INPUT 2	INPUT 1	OUTPUT 5	OUTPUT 4	OUTPUT 3	OUTPUT 2	OUTPUT 1	IGN SW	CAN-H	CAN-L
Color of Wire	SB	G/Y	>	G/B	^	B/G	R/Υ	7	O/B	R/W	M/L	٦	Ь
Terminal No.	2	3	4	5	9	32	33	34	35	36	38	39	40

_	Connector No.	nec	ğ	ž	o.		M18	ω												
_	Connector Name BCM (BODY CONTROL MODULE)	nec	ģ	ž	۳	Φ	2 2 2	동문	@ 5	BCM (BOE MODULE)	∣≿	8		<u>۳</u>	ಠ	١,				
	Connector Color WHITE	nec	tor	ŏ	이	_	>	둗	Ш											
	Æ																			
	Ħ	H.S.							- 11	- 17	lГ	_								
L							Ť	\		′	Τ									_
_	1 2	3	4	2	9	7	8	6	10	=	12	13	14	15	16	17	9 10 11 12 13 14 15 16 17 18 19		20	
	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
																				_

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NATION SWITCH	8 8 8 9	Signal Name	INPUT 1	INPUT 2	INPUT 3	INPUT 4	OUTPUT 5	OUTPUT 1	OUTPUT 2	OUTPUT 5	OUTPUT 4	OUTPUT 3	1	Signal Name	ı	ı	1	1	1							
Connector No. M28 Connector Name COMBINATION SWITCH Connector Color WHITE	12 13 10 14 11 1 2	al No. Wire	R/W	O/B			R/G	>	G/B	SB	G/Y	*		al No. Wire	3 W/L	g W/B	J L	a R/L	Д.							
Connec	E.S.H	Terminal No.		2	8	4	5	9	2	8	6	10		Terminal No.	76	10G	31G	37G	42G						_	
M24 COMBINATION METER WHITE		12 11 10 9 8 7 6 5 4 3 2	00 23 20 27 20 27 24 20		Signal Name	BATTERY	GND	CAN-H	CAN-L	RUN/START				1	RE TO WIRE	WHILE		56 46 36 26 16	106 96 86 76 86	216 206 196 186 176 166 156 146 136 126 116	306 296 286 276 266 256 246 236 226	416 406 396 386 376 366 356 346 336 326 316	30 400 470 400 400 440 400 470	61G 60G 59G 58G 57G 56G 55G 54G 53G 52G 51G 70G 69G 68G 67G 66G 65G 64G 63G 62G		756 746 736 726 716 806 796 786 776 766
Connector No. M24 Connector Name CON Connector Color WHI	E.S.	20 19 18 17 16 15 14 13	25 25 25 25 25 25		Terminal No. Wire		6	11 L	12 P	24 O/L	-			Connector No. M31	Connector Name WIRE TO WIRE				Ų.	216 206 19	30628	41G 40G 36	74 nnc	616 606 55		
Connector No. M23 Connector Name COMBINATION METER Connector Color WHITE	46 45 44 43 42 41 52 51 50 49 48 47		Color of	Terminal No. Wire Signal Name	50 BR ILL LED CON OUTPUT	52 B ILL GND									_	Connector Color GRAY		72 28 28 27	8 8	7	Terminal No. Wire Signal Name	26 Y –	27 BR –			
																									AB	BLIA1408GB

M44 AV CONTROL UNIT (WITH BASE AUDIO SYSTEM) WHITE WHITE Signal Name GND GND	Signal Name
 	M55 mme HAZARD & Molor WHITE Color of S Wire BR
Connector No. Connector Name Connector Color H.S. Terminal No. S4	Connector No. M55 Connector Name HAZARD SWITCH Connector Color WHITE Terminal No. Wire Signal Na 3 R/L - 4 BR -
AV CONTROL UNIT (WITH BASE AUDIO SYSTEM) WHITE Soft of Signal Name AL GND GND	M49 A/C AUTO AMP. BLACK 0 8 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1
	1
Connector No. Connector Color Terminal No. Color 9 R 9 R	Connecto Con
	[82,58] [82,58]
M36	Name Name
M36	Sign.
M36 Connector Name WIRE TO WIRE	
Connector No. Connector Name Connector Color H.S. (4:1h Ann Ann Ann Ann Ann Ann Ann Ann Ann A	Connector No. Connector Name Connector Color Terminal No. Color 85
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Connector No.	M63
Connector Name	Connector Name WIRE TO WIRE
Connector Color BROWN	BROWN

	5 6 7 8 9	10 11 12 13 14 15 16 17 18 19 20		Signal Name	1	1	_	-	1
	2 3 4	11 12 13		Color of Wire	R/L	BR	B/L	BR	B/L
[1	H.S.] 	erminal No. Wire	7	8	11	17	18

~	WIRE TO WIRE	BROWN	5 6 7 8 9	14 15 16 17 18 19 20	Signal Name	1	1	ı	
M63			2 3 4	11 12 13 14	Color of Wire	R/L	BR	R/L	a
Connector No.	Connector Name	Connector Color		H.S.	Terminal No.	7	80	1	17

	ctor Name GLOVE BOX LAMP	BROWN	Signal Name	1	1
M59	ne GL(Solor of Wire	R/L	В
ctor No.	ctor Nar	ctor Color	 al No. Wire		

Connector Name GI Connector Color Br H.S. H.S. Terminal No. Wire Terminal No. Wire 2 B	GLOVE BOX L	BROWN		f Signal		
Connector Na Connector Co H.S. Terminal No.		\vdash		Color of Wire	R/L	В
	Connector Na	Connector Co	H.S.	Terminal No.	1	2

	E TO WIRE	II.	3	Signal Name	I
. M56	me WIF	lor WHITE	8 9 10 1	Color of Wire	R/L
Connector No.	Connector Name WIRE TO WIRE	Connector Color	明.S.	Terminal No.	6

	RESISTOR	СК	[]	Signal Name	-	ī
	me RES	lor BLACK		Color of Wire	\	B/L
Connector No.	Connector Name	Connector Color	咸南 H.S.	Terminal No. Wire	1	2

Connector No.). M76	3
Connector Name	ame ELE (PR	ELECTRIC BRAKE (PRE-WIRING)
Connector Color	olor WHITE	ПЕ
呵呵 H.S.	21 -	3 4 5
Terminal No. Wire	Color of Wire	Signal Name
1	В	GND
4	R/L	ILL (TAIL)

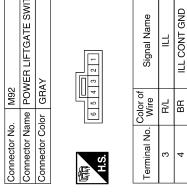
	RE TO WIRE	BROWN	1 2 3 4 5 6	Signal Name	1
. M64	me WIF		3 4 5 14 15 16	Color of Wire	BB
Connector No.	Connector Name WIRE TO WIRE	Connector Color	H.S. 12 13	Terminal No. Wire	12

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ILLUMINATION

M95	REAR POWER VENT WINDOW SWITCH	WHITE
Connector No.	Connector Name REAR POWER VENT WINDOW	Connector Color WHITE
ŏ		<u> </u> ŏ
	TGATE SWITCH	

REAR POWER VENT WINDOW SWITCH	ПЕ	4	Signal Name	ı	1
me RE/	olor WHITE	38	Color of Wire	B/L	BR
Connector Name	Connector Color	崎南 H.S.	Terminal No.	2	9



Connector No.	o. M83	
Connector Name		PEDAL ADJUSTING SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color		BROWN
咸南 H.S.	2 4	2 1 2
Terminal No.	Color of Wire	Signal Name
2	R/L	ı
9	BB	1

ç	COMBINATION SWITCH	AY		Signal Name	_	
Z C	e	lor GRAY	14 15 16	Color of Wire	0	-
Connector No	Connector Name	Connector Color	呵引 H.S.	Terminal No.	18	16
			- <u></u>			

Connector No.	. M98	
Connector Na	ame A/C.	Connector Name A/C AND AV SWITCH ASSEMBLY
Connector Color WHITE	olor WH	ΠE
H.S.	4 8	6 8 10 12 14 16 2 1 13 15 15 15 15 15 15 15 15 15 15 15 15 15
Terminal No.	Color of Wire	Signal Name
3	J/H	ILL
4	BR	ILL CONT GND

Connector No.). M96	
Connector Name	Ime (WI'	PEDAL ADJUSTING SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	olor BR(BROWN
麻 H.S.	ro 4	3 6
Terminal No.	Color of Wire	Signal Name
5	B/L	1
9	BR	I

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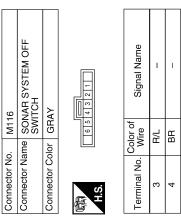
6 7 8	Signal Name	_	ı
2 3	Color of Wire	B/L	BR
H.S.	Terminal No. Wire	2	8

Signal Name

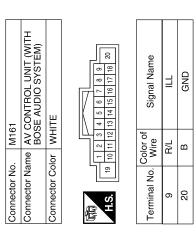
Color of Wire BB

Terminal No.

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Connector Color WHITE



Connector No	M160	C
Connector Name	Je L	AV CONTROL UNIT (WITH BOSE AUDIO
Connector Color	_	STEM, WITHOUT NAVI)
H.S.	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 3 4 5 6 7 8 9 0 11 12 13 14 15 16 17 18 20
Terminal No.	Color of Wire	Signal Name
6	B/L	TI
20	В	GND

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			А
	ame	ame em	В
M201 Ime WIRE TO WIRE lor WHITE 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	Signal Name	1251 IMPE TO WIRE IROWN Signal Name	С
No. M201 Name WIRE T Color WHITE 7 6 5 4	Color of Wire B/L	O O O O O O O O O O	D
Connector No. Connector Color Connector Color H.S.	Terminal No. 9	Connector No. Connector Name Connector Name Connector Color	Е
		17 17 17 17 17 17 17 17 17 17 17 17 17 1	F
VVI) VVII) VVII) VVIII VV	Signal Name GND	22 21 20 13 3 3 4 3 3 4 5 8 W	G
DNTRO OUT NA OUT NA E 54 44 41 55 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 53 54 54 54 54 54 54 54 54 54 54 54 54 54	Signal	l	Н
1181811	Color of Wire B	Vo. M205 Vame DVD PL Color of WHITE 13 30 29 28 27 21 21 11 12	I
Connector No. Connector Name Connector Color H.S.	Terminal No. 54	Connector No. M205	J
			K
UNIT (UDIO HOUT NAVI)	Signal Name GND	Signal Name	INL
AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM, WITHOUT I WHITE		No. M202 Name WIRE TO WIRE Color BROWN Color of Signal Name BR	M
	Color of Wire B	Connector No. M202 Connector Name WIRE TO WIRE Connector Color BROWN	N
Connector No. Connector Name Connector Color H.S.	Terminal No. 85	Connector No. Connector Name Connector Color Terminal No. M. 12 Color Terminal No. M. M.	0

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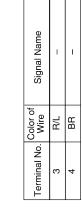
M255	Connector Name FRONT HEATED SEAT SWITCH LH	WHITE
Connector No.	Connector Name	Connector Color WHITE
	ИТСН	

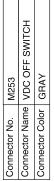
© 60	Signal Name	_	1
5 4 2 1	Color of Wire	B/L	BB
	nal No.	2	·





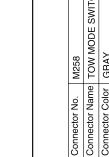


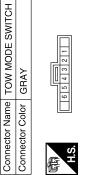












Signal Nam	I	1
Color of Wire	B/L	BR
Terminal No.	3	4

BB

12

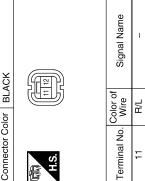
Connector No	Connector Na	

Connector No.





M256	Connector Name A/T SHIFT SELECTOR	BLACK	
Connector No.	Connector Name	Connector Color BLACK	



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Connector No.	E122		Connector No.	. E123		Connector No.	lo. E124	24
nnector Nam	ne POW MOC	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Na	me POV MOE	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector N	ame PO MC	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color WHITE	or WHI	1	Connector Color BROWN	lor BRC	NWC	Connector Color BLACK	olor BL	ACK
南 H.S.	42 41 40	39 38 37 45 44 43	明.S.	56 55	55 54 53 52	原则 H.S.	82 83	08 60 10 10 10 10 10 10 10 10 10 10 10 10 10
Terminal No. Wire	Solor of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
38	В	GND (SIGNAL)	49	R/L	ILLUMINATION	29	В	GND (POWER)
39	_	CAN-H						
40	۵	CAN-L						

Terminal No. Wire Signal Name Connector Name WIRE TO WIRE	7G L/W – Connector Color	10G W/B –	31G L –	37G R/L – – 12:13:14	42G P –	Terminal No. Wire	17	22			
Connector No. E152 Connector Name WIRF TO WIRF	Connector Color WHITE			95 07 06 07 07	98 39	116 126 136 156 156 176 186 196 206 216	226 236 246 256 266 276 286 296 306	31G 32G 33G 34G 33G 37G 33G 39G 39G 40G 41G 42G 43G 44G 45G 46G 47G 48G 69G 50G	510 520 530 540 550	71G 72G 72G 73G 74G 75G 77G 77G 77G 77G 77G 77G 77G 77G 77	114GB

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	E TO WIRE	4	12 11 10		Signal Name	ı	1					E TO WIRE	NM	6 5 4 3 2 1		Signal Name	ı	ı
o. R6	ame WIRE T	⊣ II	16 15 14 1		Color of Wire	BB	R/L				B201	me WIRE	olor BROWN	23 22 21 20 19 18	Color of	Wire	В	1/8
Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE		H.S.		Terminal No.	1	13				Connector No	Connector Name WIRE TO WIRE	Connector Color	H.S.		No.	17	22
		7												7				
	E TO WIRE		3	Signal Name	1	ı						FRONT ROOM/MAP LAMP	EMBLY Y	6 5 4 3 2 1		Signal Name	ILL+	=
E	the WIRE T	-l II¹	8 9 10 11	Color of Wire	BR	B/L					B102			8 7		5-	R/L	2
Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE		H.S.	Terminal No.	6	-					Connector No	Connector Name	Connector Color	原 H.S.		Terminal No.	7	0
]									
6	RE TO WIRE		1M 2M 3M 4M 5M 6M 6M 7M 8M 9M 10M	11M 12M 13M 14M 15M 16M 17M 18M 19M 20M 21M 22M 23M 23M 24M 25M 25M 28M 29M 30M	31M 32M 33M 34M 35M 36M 37M 38M 39M 40M 41M		51M 52M 53M 54M 55M 56M 57M 58M 59M 60M 61M 62M 63M 63M 64M 65M 66M 67M 68M 69M 70M	71M 72M 73M 74M 75M 76M 77M 78M 79M 80M	Signal Name	1	-	E TO WIRE	ITE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		Signal Name		ı
o. B149	ame WIRE T	⊣ Ⅱ	تت	11M 12M 13M 22M 23M	31M 32M 33M	42W 43W	51M 52M 53N 62M 63M	[2]	0	R/L	D. B101	ame WIR	olor WHITE	8 9 10		Color of Wire		ءَ م
Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE		H.S.						N S	30M	Connector No.	Connector Name WIRE TO WIRE	Connector Color	H.S.		Terminal No.	÷	-
													_				ABLIA	A1

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8	Connector Name WIRE TO WIRE	HITE		6 7 7 8 9 4 10 10 10 10 10 10 10 10 10 10 10 10 10	of Signal Name	ı	
	ıme M	lor V		<u>- </u> w	Color o Wire	BB	
Connector No. D3	Connector Na	Connector Color WHITE		H.S.	Terminal No. Wire	4	
	E TO WIRE	NM		1 2 3 4 5 6	Signal Name	ı	
5	e WIRI	r BRO		3 4 5 14 15 16	color of Wire	B/L	
Connector No. D1	Connector Name WIRE TO WIRE	Connector Color BROWN		H.S. 12 13	Terminal No. Wire	22	
4(Connector Name REAR AUDIO REMOTE	NI ROL UNII	≝	12 13 14 15 16 8 16 16 16 16 16 16 16 16 16 16 16 16 16	Signal Name	ILL+	GND
R2C	me RE,	3	or WF	9 10 11 3	Color of Wire	R/L	В
Connector No. R204	onnector Nar		Connector Color WHITE	明.	Color of Wire	9	15

Connector No.	D10	Connector No.	D13
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)	Connector Name	Connector Name (WITHOUT AUTOMATIC DRIVE POSITIONER)
tor Color	Connector Color BROWN	Connector Color WHITE	WHITE
- 8	2 3 4 6 7 8 6 7 8 9 10 11 12 13 14 15 16	H.S.	2 3 4 5 6 7 9 10 11 12 13 14 15 16
Color of Wire	lor of Signal Name	Color of Terminal No. Wire	lor of /ire Signal Name
	BR -	80	BR -
	B/I	σ	B/I =

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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 CVA	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 Engline stopped OFF Rear door RH opened ON Engline stopped OFF Front of plamp switch OFF OFF Front fog lamp switch OFF OFF Front swasher switch OFF OFF Front washer switch OFF OFF Front wiper swit	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 BOOR SW-RR Rear door LH opened ON BOOR SW-RR Rear door RH closed OFF BRIGHE 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 OFF OFF OFF OFF OFF OFF OFF OFF OF	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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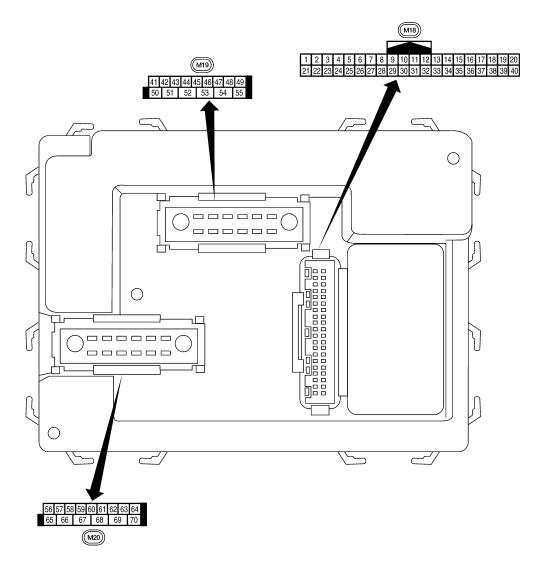
Monitor Item	Condition	Value/Status
LIGHT SW 1ST	Lighting switch OFF	OFF
LIGITI SW 131	Lighting switch 1st	ON
HEAD LAMP SW1	Headlamp switch OFF	OFF
TILAD LAWI OWI	Headlamp switch 1st	ON
HEAD LAMP SW2	Headlamp switch OFF	OFF
HEAD LAIVIP SVV2	Headlamp switch 1st	ON
HI BEAM SW	High beam switch OFF	OFF
HI BEAIN SW	High beam switch HI	ON
IGN ON SW	Ignition switch OFF or ACC	OFF
IGN ON SW	Ignition switch ON	ON
IGN SW CAN	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 ¹	LOCK button of Intelligent Key is pressed	ON
	UNLOCK button of Intelligent Key is not pressed	OFF
I-KEY UNLOCK ¹	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
0	LOCK button of key fob is not pressed	OFF
KEYLESS LOCK ²	LOCK button of key fob is pressed	ON
	UNLOCK button of key fob is not pressed	OFF
KEYLESS UNLOCK ²	UNLOCK button of key fob is pressed	ON
OIL PRESS SW	Ignition switch OFF or ACC Engine running	OFF
	Ignition switch ON	ON
ODTION OFNOOD	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
4	Return to ignition switch to LOCK position	OFF
PUSH SW ¹	Press ignition switch	ON
	Rear window defogger switch OFF	OFF
REAR DEF SW	Rear window defogger switch ON	ON
	LOCK/UNLOCK buttons of key fob not pressed at same time	OFF
RKE LCK-UNLCK	LOCK/UNLOCK buttons of key fob pressed at same time	ON
	UNLOCK button of key fob is not pressed	OFF
RKE KEEP UNLK	UNLOCK button of key fob is pressed	ON
	Rear washer switch OFF	OFF
RR WASHER SW	Rear washer switch ON	ON

Monitor Item	Condition	Value/Status
RR WIPER INT	Rear wiper switch OFF	OFF
KK WIFEK IIVI	Rear wiper switch INT	ON
RR WIPER ON	Rear wiper switch OFF	OFF
RR WIFER ON	Rear wiper switch ON	ON
RR WIPER STOP	Rear wiper stop position	OFF
KK WIFEK STOP	Other than rear wiper stop position	ON
RR WIPER STP2	Rear wiper stop position	OFF
RR WIPER STP2	Other than rear wiper stop position	ON
TRNK OPNR SW	When back door opener switch is not pressed	OFF
TRINK OPINK SW	When back door opener switch is pressed	ON
TURN SIGNAL L	Turn signal switch OFF	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TURN SIGNAL R	Turn signal switch OFF	OFF
TURN SIGNAL R	Turn signal switch RH	ON
VEHICLE SPEED	While driving	Equivalent to speedometer reading

^{1:} With Intelligent Key

^{2:} With remote keyless entry system

Terminal Layout



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Physical Values

					Measuring condition	
Terminal	Wire	Signal name	Signal input/	Ignition	ivieasuring condition	Reference value or waveform
	color	0.9	output	switch	Operation or condition	(Approx.)
1	BR/W	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
		nation			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 SKIA5292E
4	Y	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 +-5ms SKIA5291E
5	G/B	Combination switch input 2				(V)
6	V	Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	5ms SKIA5292E
0	CD/D	Rear window defogger	lmarit	ON	Rear window defogger switch ON	0V
9	GR/R	switch	Input	ON	Rear window defogger switch OFF	5V
10	G	Hazard lamp flash	Input	OFF	ON (opening or closing)	0V
		-	•		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	5.
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 +
20	G/W	Remote keyless entry	Input	OFF	Stand-by (keyfob buttons released)	(V) 6 4 2 0 • +50 ms
20	3,11	receiver (signal)	put	911	When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2 -1 0 * +50 ms
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 → 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

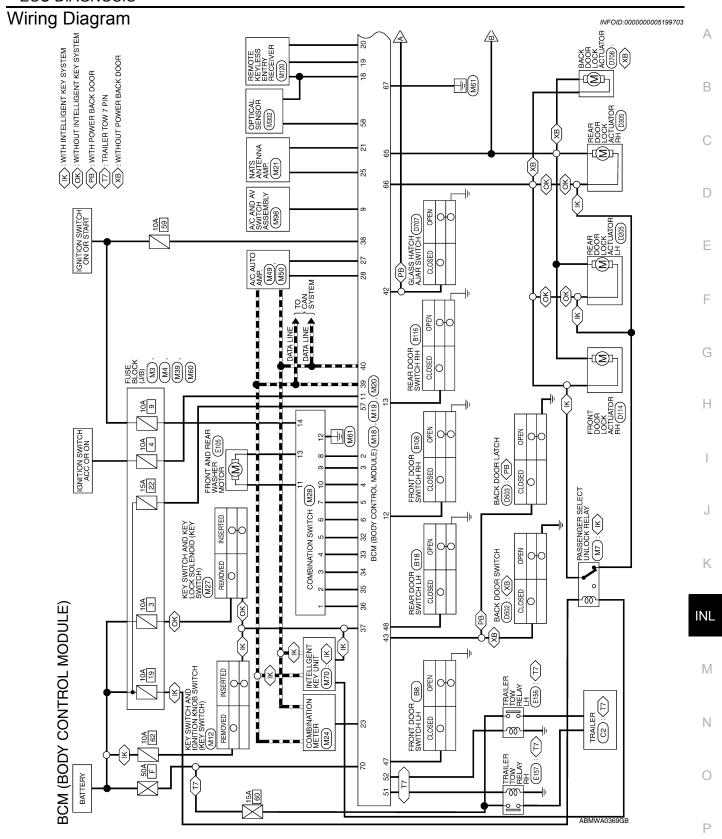
	Wire		Signal		Measuring condition	Poforonoo valuo or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveforn (Approx.)
28	L/R	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage
20	Liiv	Tronc blower monitor	mpat		Front blower motor ON	0V
29	W/B	Hazard switch	Input	OFF	ON	0V
		riazara owitori	pat		OFF	5V
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 SKIA5292E
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				(V)
36	R/W	Combination switch output 1	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	6 4 2 0 ***5ms SKIA5292E
37 ¹	B/R	Key switch and igni-	Input	OFF	Intelligent Key inserted	Battery voltage
J1	2/13	tion knob switch	pat	0 1.1	Intelligent Key inserted	0V
37 ²	B/R	Key switch and key	Input	OFF	Key inserted	Battery voltage
		lock solenoid			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	0
					Glass hatch closed	Battery
43	R/B	Back door switch (without power back door) or back door latch (door ajar switch) (with power back door)	Input	OFF	ON (open) OFF (closed)	0V Battery voltage

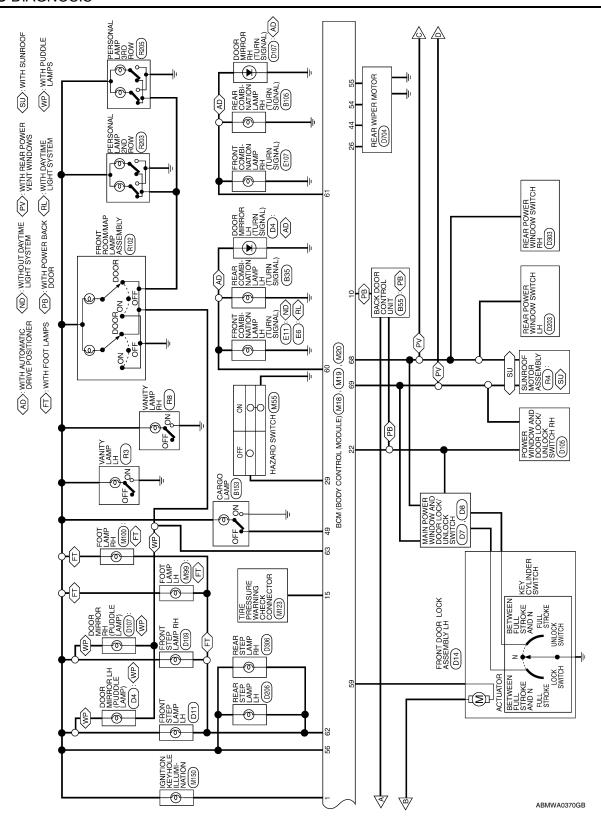
_	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
					Rise up position (rear wiper arm on stopper)	0V
					A Position (full clockwise stop position)	Battery voltage
44	0	Rear wiper auto stop switch 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	35	. Tork door Switch Ell	iiiput	011	OFF (closed)	Battery voltage
48	R/Y	Rear door switch LH	Input	OFF	ON (open)	0V
-10	101	TOOL GOOL SWILDING	iiiput	011	OFF (closed)	Battery voltage
49	R	Cargo lamp	Output	OFF	Any door open (ON)	0V
		- 2.30 .20116	Japai	J. 1	All doors closed (OFF)	Battery voltage
51	G/Y	Trailer turn signal (right)	Output	ON	Turn right 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 0 500 ms
					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 counterclockwise stop position)	Battery voltage
					Reverse sweep (clockwise direction)	Battery voltage
55	SB	Rear wiper output cir-	Output	ON	OFF	0
		cuit 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

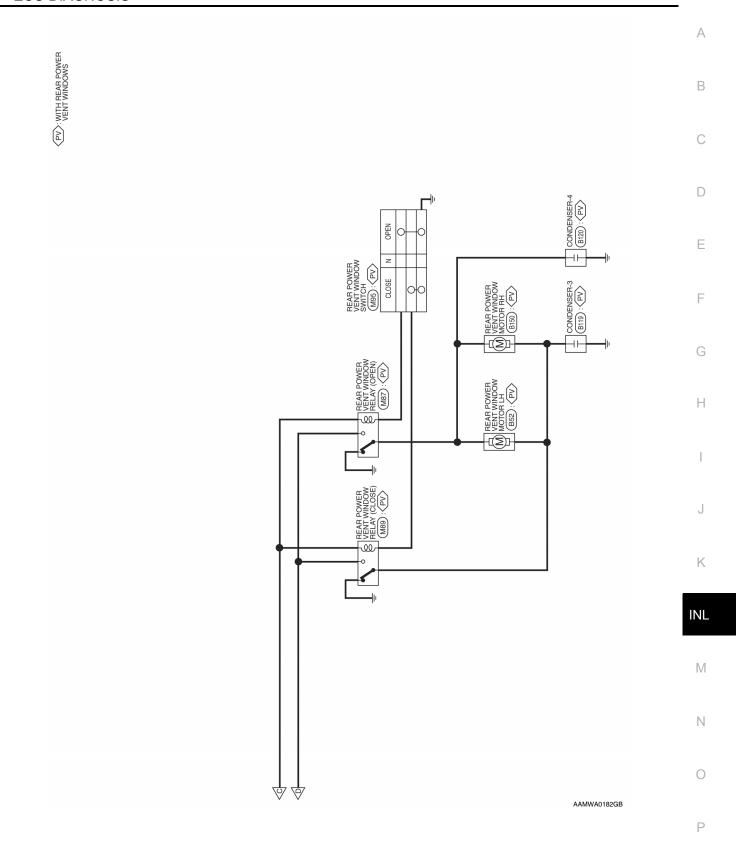
	Wire		Signal		Measuring con-	dition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation	or condition	(Approx.)
5 0	W/D	Ontical	la a cat	ON	When optical s	sensor is illumi-	3.1V or more
58	W/R	Optical sensor	Input	ON	When optical s minated	ensor is not illu-	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 5 0 500 ms
62	R/W	Step lamp LH and RH	Output	OFF	ON (any door	open)	0V
02		Stop lamp Errana (a)	Gutput	0	OFF (all doors	closed)	Battery voltage
63	L	Interior room/map	Output	OFF	Any door	ON (open)	0V
00	_	lamp	Output	011	switch	OFF (closed)	Battery voltage
65	V	All door lock actuators	Output	OFF	OFF (neutral)		0V
00	V	(lock)	Output	5	ON (lock)		Battery voltage
		Front door lock actua-			OFF (neutral)		VO
66	G/Y	tor RH, rear door lock actuators LH/RH and back door lock actua- tor (unlock)	Output	OFF	ON (unlock)		Battery voltage
67	В	Ground	Input	ON	-	_	0V
					Ignition switch	ON	Battery voltage
					Within 45 seco		Battery voltage
68	W/L	Power window power supply (RAP)	Output	_	More than 45 s nition switch O	econds after ig- FF	0V
					When front do open or power operates		0V
69	W/R	Power window power supply	Output	_	-	_	Battery voltage
70	W/B	Battery power supply	Input	OFF	-	_	Battery voltage

^{1:} With Intelligent Key system

^{2:} With remote keyless entry system







BCM (BODY CONTROL MODULE) CONNECTORS

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

		ſ	9 10 11 12 13 14 15 16 17 18 19 20	9 40	
			8	38 39	
			7	7	
۲			-1	9	
2			1	5	
F			=	8	
ō			17	69	
O			150	8	Ш
∆			12	8	
ĞΨ			Ξ	8	Ш
@5	끧	I N	10	8	
동문	∖≒		6	ಣ	
ĭĕĕ	8		8	28	
m			7	27	
Ē	ᅙ		9	56	
<u>ខ</u>	ပြ		5	52	
ō	ō		4	24	
nector Name BCM (BODY CONTROL MODULE)	nector Color WHITE	16	3	2 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	
ΙĆ	lĆ∣	- W		N	Ш

KEYLESS TUNER POWER SUPPLY OUTPUT

G/W

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KEYLESS AND AUTO LIGHT SENSOR GND

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Signal Name

Color of Wire

Terminal No. 16 17 8 IMMOBILIZER ANTENNA SIGNAL (CLOCK)

Q

2

KEYLESS TUNER SIGNAL

20

	_	
40		
39		
38		
37		
36		
35		
34		
33		
32		
31		
30		
29		
27 28		
26		
24 25		
24		
23		
22		
21		
	_	

Signal Name	KEY RING OUTPUT	INPUT 5	INPUT 4	8 TUPNI	INPUT 2	INPUT 1	-	-	REAR DEFOGGER SW	IVCS INPUT	ACC SW	DOOR SW (AS)	DOOR SW (RR)	=	TPMS MODE TRIGGER SW
Color of Wire	BR/W	SB	G/Y	٨	G/B	>	-	1	GR/R	9	0	R/L	GR	-	M
Terminal No.	-	2	င	4	5	9	2	8	6	10	11	12	13	14	15

ABMIA1055GB

IMMOBILIZER ANTENNA SIGNAL (RX,TX)

BR

REAR WIPER AUTO STOP SW2

Ϋ́

BLOWER FAN SW

AIRCON SW

W/R

R

HAZARD SW

W/B

OUTPUT 3

OUTPUT 2 OUTPUT 1 KEY SW **IGN SW** CAN-H CAN-L

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B/R

37 38

M/L

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39 40

0/B

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OUTPUT 5 OUTPUT 4

R/G

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33 32

SECURITY INDICATOR OUTPUT

ANTI-PINCH SERIAL LINK (RX,TX)

× 9/0

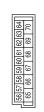
22 23 24 25 26 27 28 29

Connector No.	M28
Connector Name	Connector Name COMBINATION SWITCH
Connector Color WHITE	WHITE
21 E	12 13 10 0 8 7

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Ш		9	
Ш	8	9	
Ш	9	4	
4	П	3	
۲	Ш	2	
Ш	10	1	
	13	11	
	12	14	
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			-

Signal Name	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5	OUPUT 1	OUPUT 2	OUPUT 5	OUPUT 4	OUPUT 3	WASHER MOTOR	GND	WASHER MOTOR	IGN
Color of Wire	B/W	O/B	_	₽/Y	R/G	^	G/B	SB	G/Y	Υ	M/A	В	W/R	R/L
Terminal No.	-	2	ဇ	4	5	9	2	8	6	10	11	12	13	14

M20	Connector Name BCM (BODY CONTROL MODULE)	BLACK	
Connector No.	Connector Name	Connector 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	1	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	Ø	G/B	G/Y	W _M	_	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	70

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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:0000000005199705

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 C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1712: [CODE ERR] FL C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1726: [BATT VOLT LOW] RR C1727: [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-33
B2013: STRG COMM 1	_	_	_	<u>SEC-28</u>

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2190: NATS ANTENNA AMP	_	_	_	SEC-31 (with I- Key), SEC-134 (without I-Key)
B2191: DIFFERENCE OF KEY	_	_	_	SEC-34 (with I- Key), SEC-137 (without I-Key)
B2192: ID DISCORD BCM-ECM	_	_	_	SEC-35 (with I- Key), SEC-138 (without I-Key)
B2193: CHAIN OF BCM-ECM	_	_	_	SEC-37 (with I- Key), SEC-140 (without I-Key)
B2552: INTELLIGENT KEY	_	_	_	SEC-39
B2590: NATS MALFUNCTION	_	_	_	SEC-40
C1708: [NO DATA] FL	_	_	_	<u>WT-14</u>
C1709: [NO DATA] FR	_	_	_	<u>WT-16</u>
C1710: [NO DATA] RR	_	_	_	<u>WT-16</u>
C1711: [NO DATA] RL	_	_	_	<u>WT-16</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-16</u>
C1718: [PRESSDATA ERR] RR		_	_	<u>WT-16</u>
C1719: [PRESSDATA ERR] RL		_	_	<u>WT-16</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: IGN_CIRCUIT_OPEN	_	_	_	_

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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 (if equipped) Foot lamps (if equipped)	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 (if equipped) Front room/map lamp assembly	Harness between BCM and each door switch Harness between BCM and each	Door switch circuit Refer to <u>DLK-73</u> (with Intelligent Key) or <u>DLK-274</u> (without Intelligent Key).
Personal lamp 2nd row Personal lamp 3rd row	interior room lamp • BCM	Interior room lamp control circuit Refer to INL-19.
Some or all of the following lamps do not turn ON/OFF Front step lamps Rear step lamps Foot lamps (if equipped)	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 INL-12, "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 INL-12, "INT LAMP: CON-SULT-III Function (BCM - INT LAMP)".

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:0000000005260671

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 rotated.
- 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

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- 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 combination switch (lighting and turn signal 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

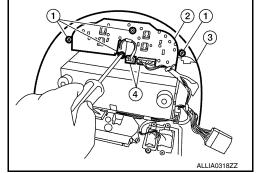
INTERIOR ROOM LAMP

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.

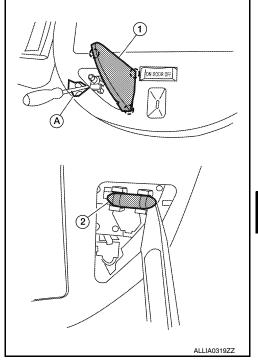
Bulb Replacement

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

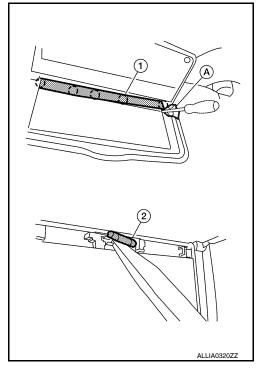
< ON-VEHICLE REPAIR >

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

Vanity mirror lamp bulb : 12V - 1.8W

CAUTION:

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



GLOVE BOX LAMP

Removal

- 1. Remove 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.

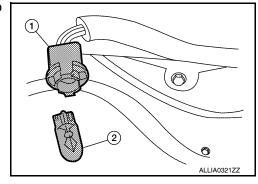
Installation

Installation is in the reverse order of removal.

Bulb Replacement

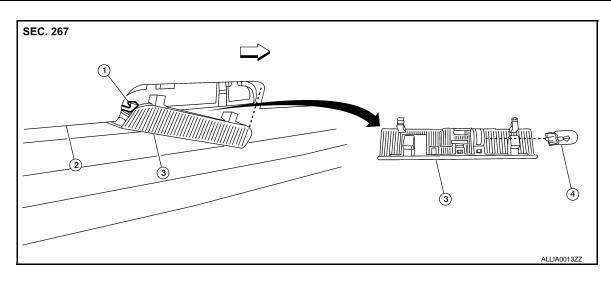
- 1. Remove instrument lower panel RH and glove box. Refer to IP-17, "Removal and Installation".
- 2. Pull bulb (2) straight out from glove box lamp socket (1) to remove.

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

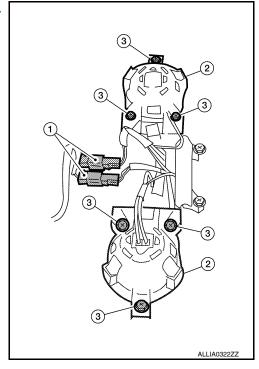
- 1. Remove the step lamp lens/socket.
- 2. Pull the bulb straight out to remove.

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.

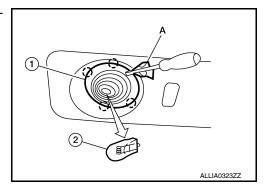
Bulb Replacement

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

Personal lamp bulb : 12V - 6W

CAUTION:

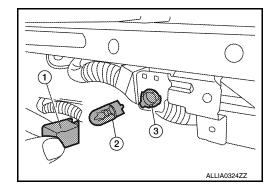
Wrap a cloth around tool to protect the housing and lens.



FOOTWELL LAMP

Removal

Rotate footwell lamp socket (3) counterclockwise from bracket.



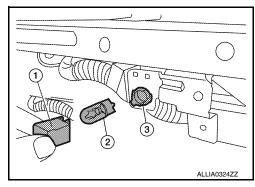
Installation

Installation is in the reverse order of removal.

Bulb Replacement

- 1. 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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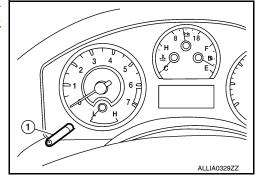
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ILLUMINATION CONTROL SWITCH

Removal

The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to MWI-106, "Removal and Installation".



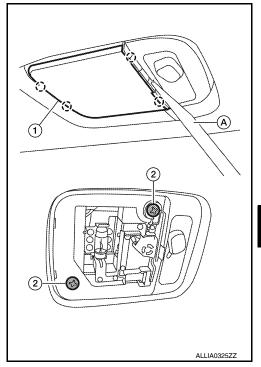
Installation

Installation is in the reverse order of removal.

CARGO LAMP (if equipped)

Removal

- 1. Using a suitable tool (A), release the pawls and remove the cargo lamp lens (1).
- 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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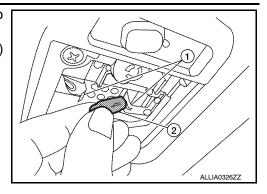
Revision: April 2009 INL-81 2010 Armada

ILLUMINATION

< ON-VEHICLE REPAIR >

- 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.

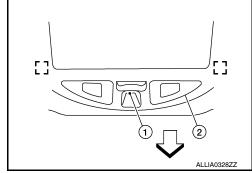
Cargo lamp bulb : 12V - 8W



CONSOLE ILLUMINATION LAMP (if equipped)

Removal

The console illumination lamp (1) is replaced as part of the map lamp assembly (2). Refer to INL-77, "Removal and Installation". ⇐: Vehicle front

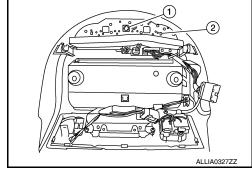


Installation

Installation is in the reverse order of removal.

Bulb Replacement

- 1. Remove overhead 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

Console illumination lamp

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

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

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