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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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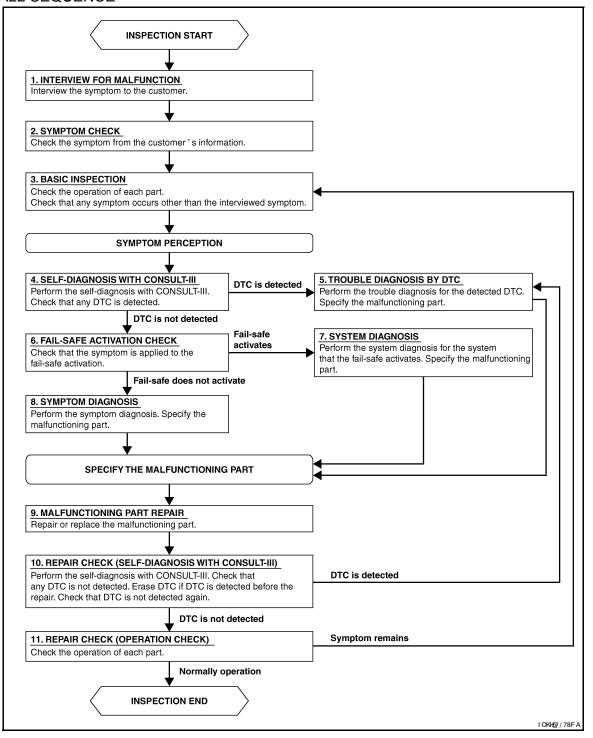
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OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3

3.BASIC INSPECTION

Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview.

>> GO TO 4

4. SELF-DIAGNOSIS WITH CONSULT-III

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

Is any DTC detected?

YES >> GO TO 5

NO >> GO TO 6

5. TROUBLE DIAGNOSIS BY DTC

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

>> GO TO 9

6. FAIL-SAFE ACTIVATION CHECK

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

Does the fail-safe activate?

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	
NO >> GO TO 11 11.REPAIR CHECK (OPERATION CHECK)	А
Check the operation of each part.	
Does it operate normally?	В
YES >> Inspection End NO >> GO TO 3	
NO >> GO 10 3	С
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FUNCTION DIAGNOSIS

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

INFOID:0000000004065605 Room lamp Doo Remote keyless ON 2nd row Battery saver output/ entry receiver Lock/unlock signal Front room Doo map lamp ON assembly Key cylinder Cargo Door lock/unlock switches lamp ON Vanity Power window and door mirror lamp lock/unlock switches **BCM** Door switch (ALL) switch Key switch Insert signal Cargo lamp control signal Interior room lamp control signal

System Description

INFOID:0000000004065606

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OUTLINE

- Front room/map lamp and room lamp 2nd row are controlled by the interior room lamp timer control function
 of the BCM.
- Cargo lamp is controlled by the cargo lamp control function of the BCM.

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

ROOM LAMP TIMER OPERATION

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

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

Timer control is cancelled under the following conditions.

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

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

INTERIOR LAMP BATTERY SAVER CONTROL

< FUNCTION DIAGNOSIS >

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 a main power window and door lock/unlock switch, or when the front door LH lock assembly (key cylinder switch) is locked or unlocked
- a door is opened or closed

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

Component Parts Location

(9) (10) 8

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

- . Key switch M27
- 5. Rear door switch LH B18 RH B116

- Steering column assembly
- 6. Back door key cylinder switch D505

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< FUNCTION DIAGNOSIS >

10. Front room/map lamp assembly R9

- 7. Back door switch D502
- 8. Cargo lamp R11

LH B80 RH B81

- 11. Vanity lamp (with vanity lamps)
 I H B80
- 9. Room lamp 2nd row R12
- 12. Ignition keyhole illumination M150

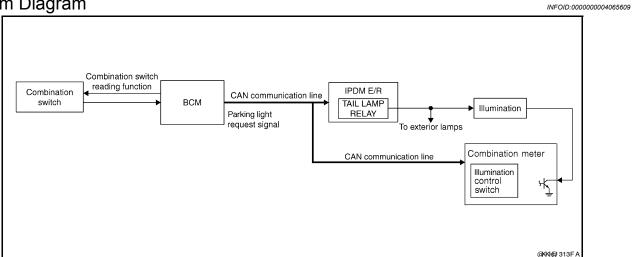
Component Description

INFOID:0000000004065608

Part name	Description
BCM	Provides power and ground and controls timer functions for the interior room lamps and cargo lamp.
Key switch	Provides key in ignition status to the BCM.
Door switches	Provides door OPEN/CLOSED status to the BCM.
Back door switch	Provides back door OPEN/CLOSED status to the BCM.
Main power window and door lock/unlock switch	Provides door lock/unlock position switch status to the BCM.
Power window and door lock/unlock switch RH	Provides door lock/unlock position switch status to the BCW.
Front door lock assembly LH (key cylinder switch)	Provides door lock/unlock status to the BCM
Back door key cylinder switch	Flovides door lock/utiliock status to the BCIVI.

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

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

BATTERY SAVER CONTROL

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

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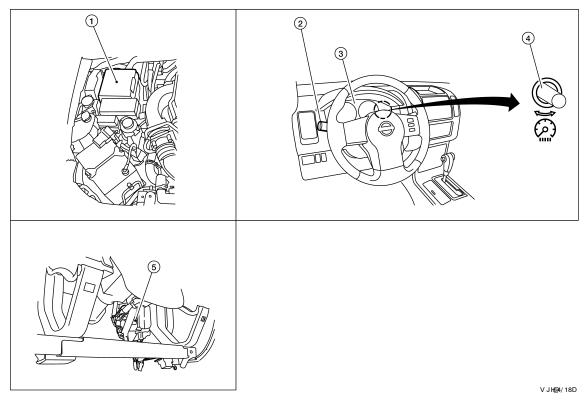
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Component Parts Location

INFOID:0000000004065611



- 1. IPDM E/R E122, E124
- 4. Illumination control switch (built into combination meter)
- 2. Combination switch M28
- BCM M18, M20 (view with lower instrument panel LH removed)
- Combination meter M24

Component Description

INFOID:0000000004065612

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	The combination switch provides input to the BCM about the lighting switch position.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)

INFOID:0000000004459275

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APPLICATION ITEM

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

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by BCM. Refer to INL-56, "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.

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

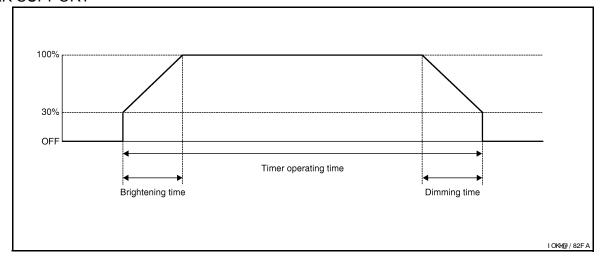
System	Cub avotom polootion item	Diagnosis mode			
System	Sub system selection item	WORK SUPPORT	DATA MONITOR	ACTIVE TEST	_
BCM	BCM	×			- 1
Door lock	DOOR LOCK	×	×	×	_
Rear window defogger	REAR DEFOGGER		×		J
Warning chime	BUZZER		×	×	_
Interior room lamp timer	INT LAMP	×	×	×	_
Remote keyless entry system	MULTI REMOTE ENT	×	×	×	- K
Exterior lamp	HEAD LAMP	×	×	×	_
Wiper and washer	WIPER	×	×	×	INI
Turn signal and hazard warning lamps	FLASHER		×	×	
Air conditioner	AIR CONDITONER		×		_
Combination switch	COMB SW		×		M
Immobilizer	IMMU		×	×	_
Interior room lamp battery saver	BATTERY SAVER	×	×	×	- N
Back door open	TRUNK		×	×	_ ''
Vehicle security system	THEFT ALM	×	×	×	=
RAP (retained accessory power)	RETAINED PWR	×	×	×	0
Signal buffer system	SIGNAL BUFFER		×	×	_
TPMS (tire pressure monitoring system)	AIR PRESSURE MONITOR	×	×	×	P
Panic alarm system	PANIC ALARM			×	_

INT LAMP

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

INFOID:0000000004459276

WORK SUPPORT



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

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

Monitor Item [Unit]	Description
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)

ACTIVE TEST

Test Item	Operation	Description
IGN ILLUM	ON	Outputs the ignition keyhole illumination control signal to turn the ignition keyhole illumination lamp ON.
ION ILLOW	OFF	Stops the ignition keyhole illumination control signal to turn the ignition keyhole illumination lamp OFF.
INT LAMP	ON	Outputs the interior room lamp control signal to turn the interior room lamps ON.
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.
STEF LAWIF 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.
OFF		Stops the luggage lamp control signal to turn the luggage lamp OFF.

BATTERY SAVER

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

INFOID:0000000004459277

WORK SUPPORT

Work Item	Setting Item	Setting		
ROOM LAMP TIMER SET	MODE 1*	15 min.	Sets the interior room lamp battery saver timer operating	
TOOM LAWN THEIR OLT	MODE 2	30 min.	time.	

^{*:} Initial setting

DATA MONITOR

Monitor Item [Unit]	Description		
IGN ON SW [ON/OFF]	Ignition switch (ON) status judges from IGN signal (ignition power supply)		
KEY ON SW [ON/OFF]	The switch status input from key switch		
DOOR SW-DR [ON/OFF]	The switch status input from front door switch (driver side)		
DOOR SW-AS [ON/OFF]	The switch status input from front door switch (passenger side)		
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH		
DOOR SW-RL [ON/OFF]	The switch status input from rear door switch LH		
BACK DOOR SW [ON/OFF]	The switch status input from back door switch		
KEY CYL LK-SW [ON/OFF]	Lock switch status input from door key cylinder switch		
KEY CYL UN-SW [ON/OFF]	Unlock switch status input from door key cylinder switch		
CDL LOCK SW [ON/OFF]	Lock switch status input from door lock and unlock switch		
CDL UNLOCK SW [ON/OFF]	Unlock switch status input from door lock and unlock switch		
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)		

ACTIVE TEST

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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

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

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000004459278

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	18 (10A)
70	Battery power supply	G (50A)
11	Ignition ACC or ON	4 (10A)
38	Ignition ON or START	1 (10A)

Is the fuse blown?

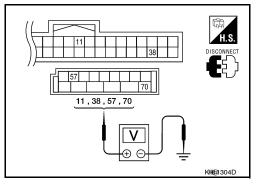
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- 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	power Switch Batt		
	38 Ground		lgnition power supply	Ignition switch ON or START	Battery voltage	
M20	57	Ground	Battery power supply	Ignition switch OFF	Battery voltage	
IVIZU	M20 70		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

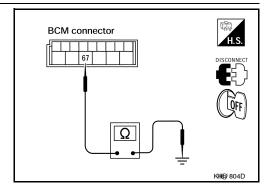
Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M20	67		Yes	

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description INFOID:000000004065617

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:0000000004065618

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

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

Is the inspection result normal?

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

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

Diagnosis Procedure

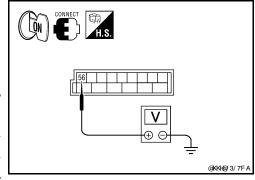
INFOID:0000000004065619

${f 1}.$ 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
IVIZO	30	Ground	ON	Battery voltage



Is the inspection result normal?

YES >> GO TO 2

NO >> Replace BCM. Refer to BCS-57, "Removal and Installation".

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect the following connectors.
- BCM M20
- Ignition key hole illumination
- Front room/map lamp assembly
- Vanity lamp LH (if equipped)
- Vanity lamp RH (if equipped)
- Cargo lamp
- Room lamp 2nd row
- Check continuity between BCM connector and each interior room lamp connector.

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

BCI	M	Interior room lamp		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
	Ignition key hole illumination	M150	1		
	Front room/map lamp assembly	R9	1		
	Vanity lamp LH (if equipped)	B80	1	\/	
M20	56	Vanity lamp RH (if equipped)	B81	1	Yes
	Cargo lamp	R11	2		
		Room lamp 2nd row	R12	2	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

3. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

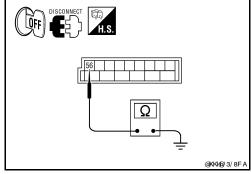
Check continuity between BCM connector M20 terminal 56 and ground.

Connector	Terminal	_	Continuity
M20	56	Ground	No

Is the inspection result normal?

YES >> Replace the interior room lamp. Refer to <u>INL-60</u>, <u>"Removal and Installation"</u>.

NO >> Repair the harness or connectors.



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INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

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

- Front room/map lamp assembly
- Room lamp 2nd row

NOTE:

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

Component Function Check

INFOID:0000000004065621

CAUTION:

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

- Battery saver output/power supply
- Front room/map lamp bulbs
- · Room lamp 2nd row bulb

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

(P)CONSULT-III

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

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

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal.

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

Diagnosis Procedure

INFOID:0000000004065622

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

(P)CONSULT-III

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

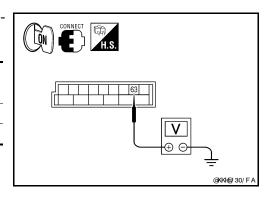
(+)		(-)	INT LAMP	Voltage	
Connector	Terminal	(-)	IIVI LAWII	voltage	
M20	M20 63 Gro		ON	0V	
IVIZU	03	Ground	OFF	Battery voltage	

Is the inspection result normal?

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

Fixed OFF>> GO TO 2

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT



INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

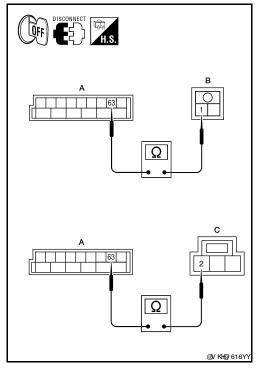
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, room lamp 2nd row connector and front room/map lamp connector.
- 3. Check continuity between BCM connector M20 terminal 63 and interior room lamp connectors.

Term	inal	Terminal			Continuity
Connector	Terminal	Component	Connector	Terminal	Continuity
M20 (A) 63	Room lamp 2nd row	R9 (B)	1	Yes	
IVIZU (A)	00	Front room/map lamp	R12 (C)	2	163

Is the inspection result normal?

YES >> Check interior room lamp for an open. If OK, replace the BCM. Refer to BCS-57, "Removal and Installation". If NG, replace the interior room lamp. Refer to INL-60, "Removal and Installation".

NO >> Repair the harness or connectors.



${f 3.}$ CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

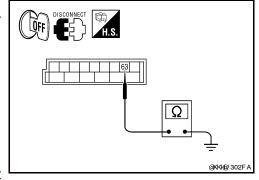
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, room lamp 2nd row connector and front room/map lamp connector.
- 3. Check continuity between BCM connector and ground.

Connector	Terminal	_	Continuity
M20	63	Ground	No

Is the inspection result normal?

YES >> Check interior room lamp for a short circuit. If OK, replace the BCM. Refer to <u>BCS-57</u>, "Removal and <u>Installation"</u>. If NG, replace the interior room lamp. Refer to <u>INL-60</u>, "Removal and <u>Installation"</u>.

NO >> Repair the harness or connectors.



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CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

CARGO LAMP CONTROL CIRCUIT

Description INFOID:000000004065623

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

Component Function Check

INFOID:0000000004065624

INFOID:0000000004065625

CAUTION:

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

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

(P)CONSULT-III

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

ON : Cargo lamp ON OFF : Cargo lamp OFF

Is the inspection result normal?

YES >> Cargo lamp circuit is normal.

NO >> Refer to INL-20, "Diagnosis Procedure".

Diagnosis Procedure

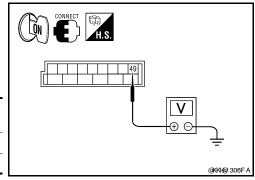
1. CHECK CARGO LAMP OUTPUT

(P)CONSULT-III

1. Turn ignition switch ON.

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

Connector	Terminal	_	LUGGAGE LAMP TEST	Voltage
M19	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

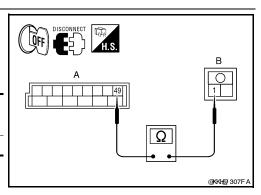
Fixed OFF>> GO TO 2

2.CHECK CARGO LAMP OPEN CIRCUIT

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

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

Is the inspection result normal?



CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

- >> Check cargo lamp for an open. If OK, replace BCM. Refer to BCS-57, "Removal and Installation". YES If NG, replace cargo lamp. Refer to INL-60, "Removal and Installation".
- NO >> Repair harness or connectors.

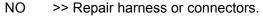
3.check cargo lamp short circuit

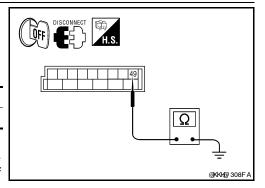
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M19 and cargo lamp connector R11.
- Check continuity between BCM connector M19 terminal 49 and ground.

Connector	Terminal	_	Continuity
M19	49	Ground	No

Is the inspection result normal?

>> Check cargo lamp for a short circuit. If OK, replace BCM. Refer to BCS-57, "Removal and Installation". If YES NG, replace cargo lamp. Refer to INL-60, "Removal and Installation".





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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description

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

Component Function Check

INFOID:0000000004065627

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-22, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004065628

1. CHECK IGNITION KEYHOLE OUTPUT

(P)CONSULT-III

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

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

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Is the inspection result normal?

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

Fixed ON>>GO TO 3.

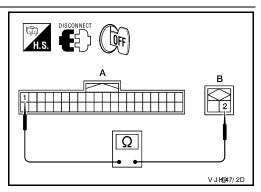
Fixed OFF>> GO TO 2.

2.CHECK IGNITION KEYHOLE ILLUMINATION OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 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.

ВСМ		Ignition keyhole illumination		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M18 (A)	1	M150 (B)	2	Yes

Is the inspection result normal?



IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

- YES >> Check the ignition keyhole illumination for an open. If OK, replace the BCM. Refer to <u>BCS-57</u>. "Removal and Installation". If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.

3. Check ignition keyhole illumination short circuit

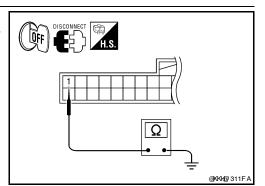
- 1. Turn ignition switch OFF.
- Disconnect BCM connector M18 and ignition keyhole illumination connector.
- 3. Check continuity between BCM connector M18 terminal 1 and ground.

Connector	Terminal	_	Continuity
M18	1	Ground	No

Is the inspection result normal?

YES >> Check the ignition keyhole illumination for a short circuit. If OK, replace the BCM. Refer to BCS-57, "Removal and Installation". If NG, replace ignition keyhole illumination.

NO >> Repair harness or connectors.



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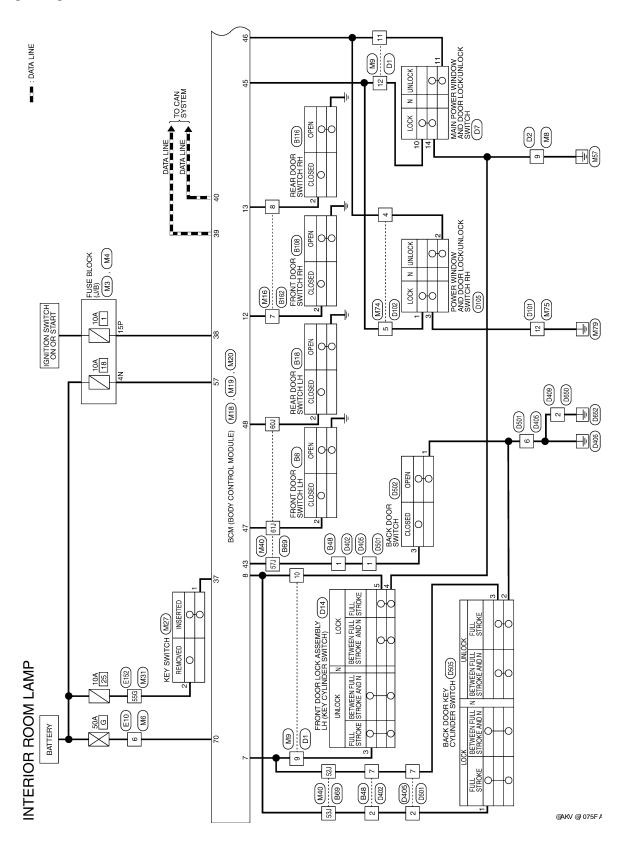
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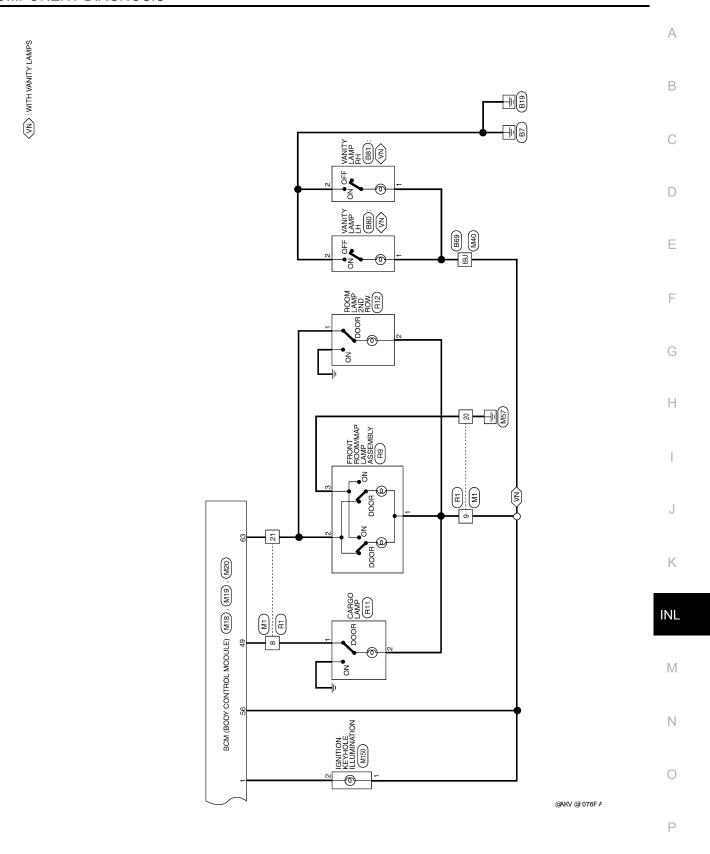
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Wiring Diagram





< COMPONENT DIAGNOSIS >

Connector Name | FUSE BLOCK (J/B)

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Connector No.

Connector Color WHITE

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

INTERIOR ROOM LAMP CONNECTORS

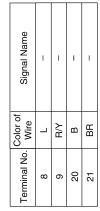
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Connector Name | FUSE BLOCK (J/B)

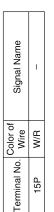
Connector No. M3

Connector Color WHITE









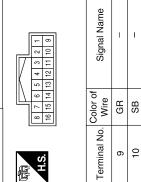
Signal Name

Color of Wire

Terminal No. 4 N

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Connector No.

Connector No.



Signal Name	_
Color of Wire	В
Terminal No.	6

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Signal Name	I	
Color of Wire	Μ	
Terminal No.	9	

WIRE TO WIRE	WHITE	3 5 1 1 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Connector Name	Connector Color	(南)





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KEY CYLINDER LOCK SW

SB

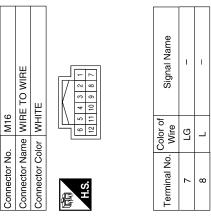
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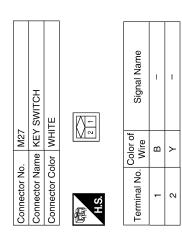
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	_		_	_		
Signal Name	DOOR SW (AS)	DOOR SW (RR)	KEY SW	IGN SW	CAN-H	CAN-L
Color of Wire	LG	٦	В	W/R	٦	Ь
Terminal No.	12	13	37	88	68	40

Connector No. M18

	NTROL		9 10 11 12 13 14 15 16 17 16 19 20 29 30 31 32 33 94 35 38 37 38 39 40 Signal Name	NDEB
!	BCM (BODY CONTROL MODULE)	WHITE	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 22 23 24 25 28 29 31 32 23 39 35 38 37 38	KFY CYI INDEB
_			6 7 8 26 27 28 Color of Wire	į
	Connector Name	Connector Color	H.S. 1 2 3 4 5 2 12 23 24 25 21 22 13 14 15 1	





Connector No.	. M20	(
Connector Name		BCM (BODY CONTROL MODULE)
Connector Color		BLACK
(南) H.S.	5657 58 5	56 67 38 59 60 61 82 63 64 65 66 67 68 69 70
Terminal No.	Color of Wire	Signal Name
56	>	BATTERY SAVER OUTPUT
22	R/Υ	BAT (FUSE)
63	BR	ROOM LAMP OUTPUT
70	M	BAT (F/I)

6	BCM (BODY CONTROL MODULE)	WHITE	41 42 43 44 45 46 47 48 49 5 5 5 1 5 2 5 3 5 4 5 5	Signal Name	BACK DOOR SW	CDL LOCK SW	CDL UNLOCK SW	DOOR SW (DR)	DOOR SW (RL)	CARGO LAMP OUTPUT
. M19		_	41 42 43	Color of Wire	\	>	ГG	GR	Д	_
Connector No.	Connector Name	Connector Color	(南) H.S.	Terminal No.	43	45	46	47	48	49

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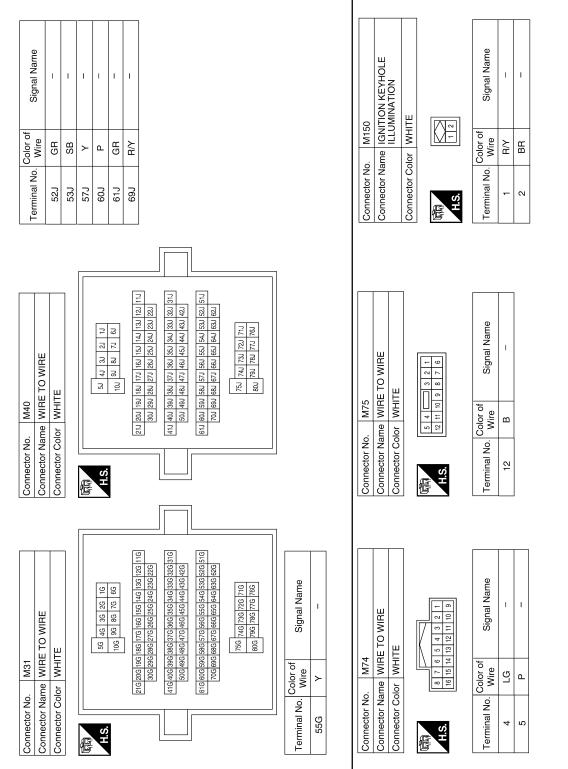
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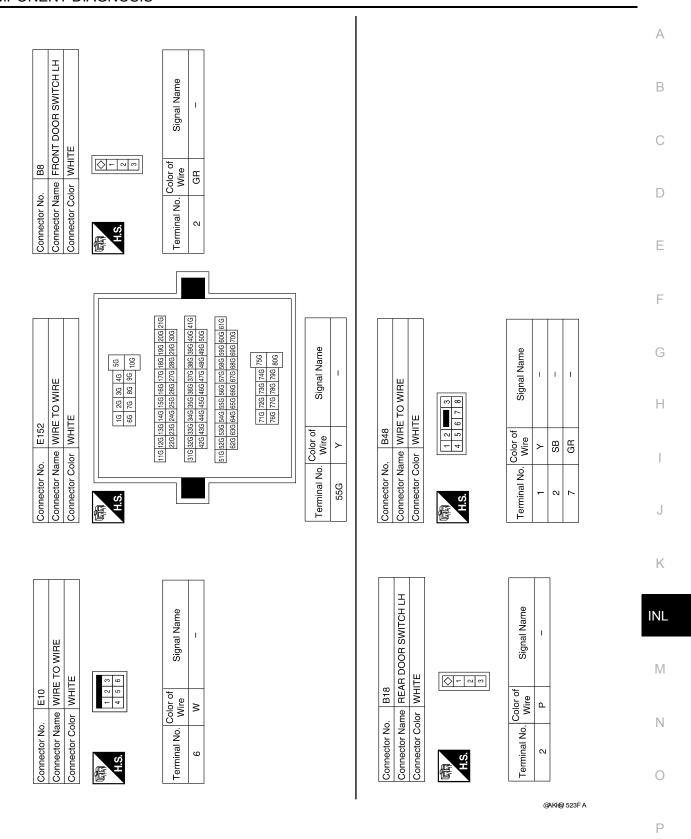
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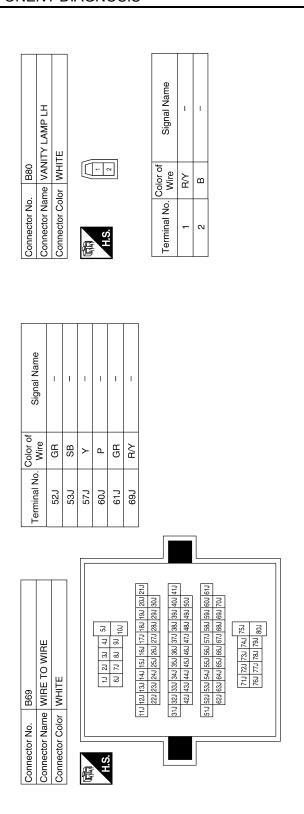


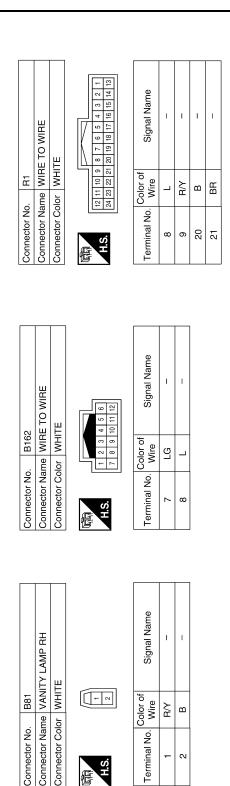
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Connector Color WHITE

B81

Connector No.

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Color of Wire

Terminal No.

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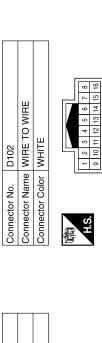
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< COMPONENT DIAGNOSIS >

		Α
Signal Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH WHITE 1	В
Sign Sign	MAIN POWER WIN SWITCH WHITE 2 3 4	С
No N	1 	D
Connector Nan Connector Cold Connector Cold Terminal No. C	Connector Nome Connector Color Terminal No. W 11 14 14	Е
		F
Name Name	Yame	G
Signal Name	D2 N BROWN 1 2 3	Н
Connector No. R11 Connector Name CARGO LAMP Connector Color WHITE This Thi	Connector No. D2 Connector Name WIRE TO WIRE Connector Color BROWN LS. Terminal No. Wire Signal 9 B	I
Connector Nan Connector Col Terminal No.	Connector Nor. Connector Nar. Connector Colc H.S. 9	J
		K
Connector No. R9 Connector Name FRONT ROOMMAP LAMP ASSEMBLY Connector Color WHITE ASSEMBLY Connector Color WHITE RASEMBLY Connector Name RONT ROOMMAP LAMP ASSEMBLY Connector Name RONT	WIRE 14 15 16	INL
Sign:	D1 WIRE TO WIRE WHITE WHITE Signal N Wire Wire	M
No. R9 Name FRONT ASSEM Color of Wire R/Y B Y		Ν
Connector Name Connector Color Terminal No. W 1 2 3	Connector Nan Connector Nan Connector Nan H.S. H.S. 10 11 11 12	0
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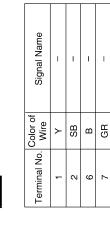
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Signal Name	ı	_
Color of Wire	Μ	ГВ
rminal No.	4	5





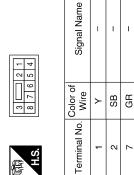


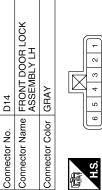




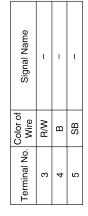
Signal Nam	ı
Color of Wire	В
Terminal No.	12

D402	WIRE TO WIRE	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	









Connector No.	. D105	22
Connector Name		POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color WHITE	lor WHI	<u> </u>
明.S.	- 0	2
Terminal No.	Color of Wire	Signal Name
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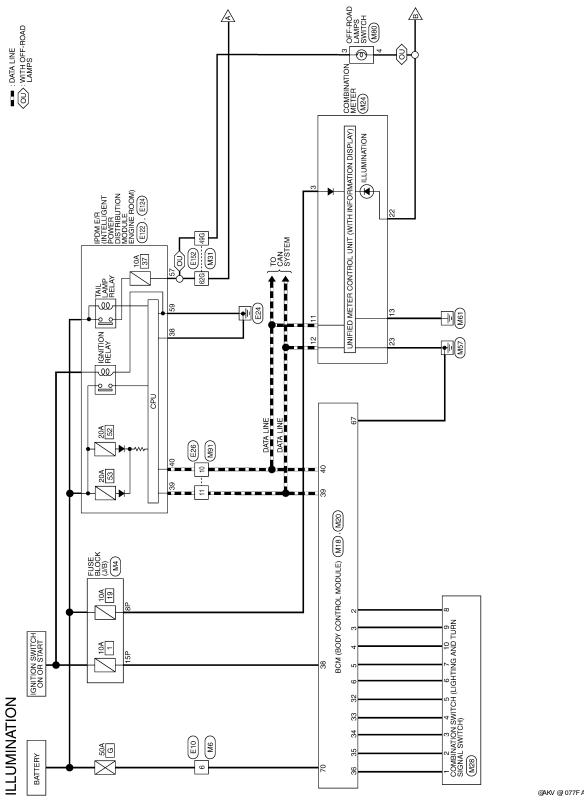
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Signal Name		В
		С
Connector No. D502 Connector Name BAC Connector Color WHI A.S. 1 B 1 B 1 B 3 Y Y		D
Conne Conne Termir		Е
		F
Signal Name	Signal Name	G H
Connector No. D501 Connector Name WIRE TO WIRE Connector Color WHITE H.S. 12 3	Connector No. D650 Connector Name WIRE TO WIRE Connector Color WHITE H.S. Terminal No. Wire Signal	I
Connector No. Connector Colo Connector Colo Terminal No. 7	Connector No. D650 Connector Name WIRE T Connector Color WHITE H.S. Terminal No. Wire 2 B	J
		K
WIRE Signal Name	Signal Name	INL
	D505 BACK DO CYLINDER WHITE or of ire	M
Connector No. D409 Connector Name WIRE T Connector Color WHITE H.S. Color of Wire 2 B	Connector No. Connector Name Connector Color H.S. 1 Color 2 1 S	N
Con		0

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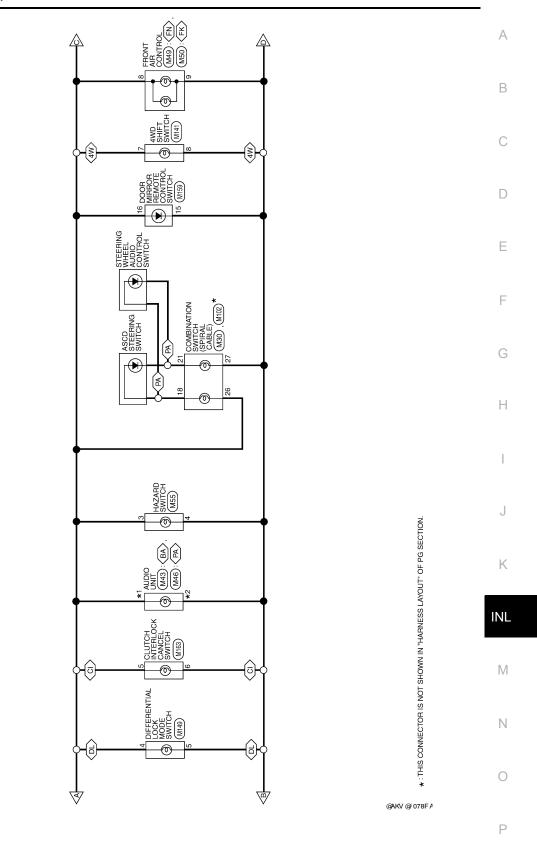
ILLUMINATION

Wiring Diagram INFOID:0000000004065630

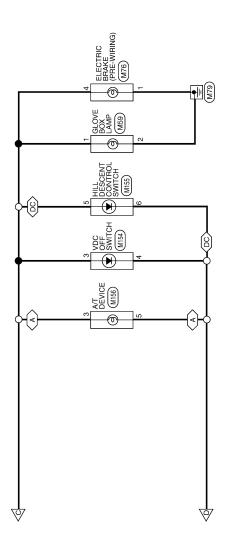


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(BA): WITH BASE AUDIO SYSTEM
(CI): WITH INTERLOCK CANCEL SWITCH
(DL): WITH ELECTRONIC LOCKING REAR
(FK): WITH VBC
(FN): WITH OUT VBC
(4W): WITH 4-WHEEL DRIVE
(PA): WITH PREMIUM AUDIO SYSTEM







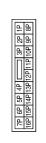
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ILLUMINATION CONNECTORS

Connector Name WIRE TO WIRE

Connector No.

Connector Color WHITE







Signal Name

Terminal No. Wire

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Signal Name	l	ı	
Color of Wire	Η/Υ	W/R	
inal No.	8P	15P	

Connector Name | BCM (BODY CONTROL MODULE)

M18

Connector No.

Connector Color WHITE



Connector Name BCM (BODY CONTROL MODULE)	BLACK	65 66 67 68 69 70	Signal Name	GND (POWER)	BAT (F/L)
ame BC MC		65 66	Color of Wire	В	8
Connector Na	Connector Color	用.S.	Terminal No.	29	70

Signal Name

Color of Wire

Terminal No.

OUTPUT 5 OUTPUT 4 OUTPUT 3

GR

38 33 32

INPUT 3

INPUT 4

SB

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INPUT 2

INPUT 1

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OUTPUT 1

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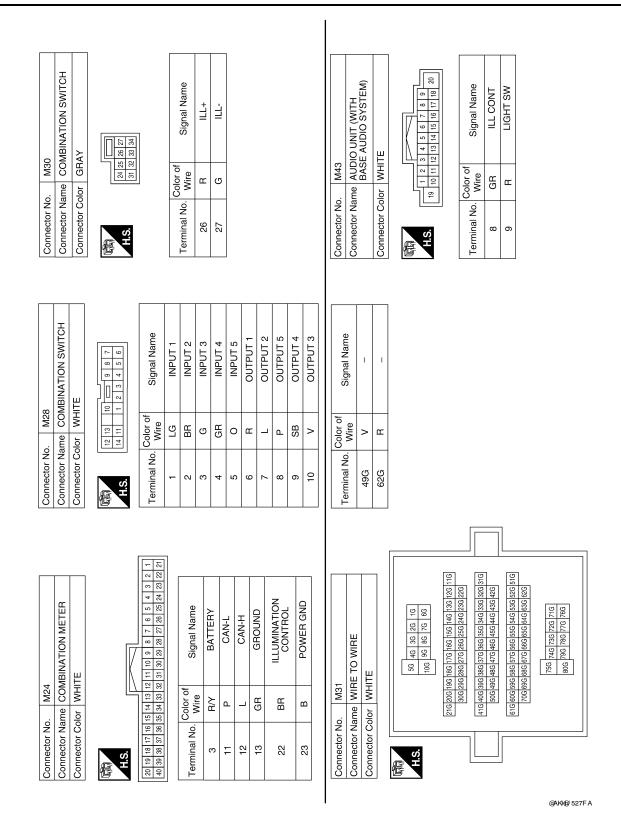
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M50	Connector Name FRONT AIR CONTROL (WITH VBC)	BLACK	13 12 11 10 9 8 7 6 5 4 3 2 1 1 14 15 28 22 21 22 1 20 19 18 17 16 15 14
Connector No. M50	Connector Name	Connector Color BLACK	H.S. 28 25 32
Connector No. M49	Connector Name FRONT AIR CONTROL (WITHOUT VBC)	Connector Color BLACK	13 12 11 10 9 8 7 6 5 4 3 2 1 20 25 24 23 22 21 20 19 18 17 16 15 14
Connector	Connector	Connector (H.S.

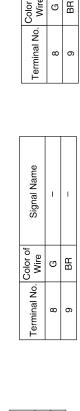
Connector Name | AUDIO UNIT (WITH | PREMIUM AUDIO SYSTEM)

M46

Connector No.

Connector Color WHITE

Signal Name	ı	I	
Color of Wire	g	BB	
Terminal No. Wire	8	6	
ignal Name	1	I	



Signal Name

Color of Wire GR Œ

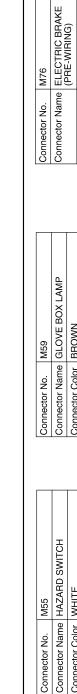
Terminal No.

H.S.

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Connector Name GLOVE BOX LAMP	NWC		Signal Na	_	_
me GLC	lor BROWN		Color of Wire	В	В
Connector Na	Connector Color	H.S.	Terminal No.	-	2
		· <u> </u>			

Signal Name

Color of Wire

Terminal No.

Connector Color WHITE

GROUND ILL (TAIL)

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Signal Name	_	-	
Color of Wire	В	BR	
Terminal No. Wire	3	4	

是 H.S.

Connector Color WHITE

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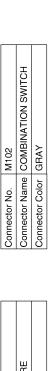
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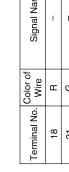
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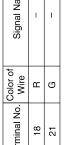


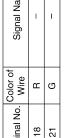


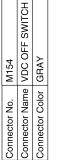


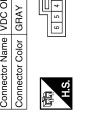
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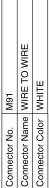














Signal Nam	ı	I	
Color of Wire	Д	Т	
Terminal No.	10	11	

M149	Connector Name DIFFERENTIAL LO SWITCH	WHITE
Connector No.	Connector Name	Connector Color WHITE

CK MODE



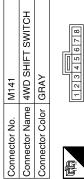
Signal Nam	I	_
Color of Wire	В	BR
Terminal No.	4	5



Connector No. M80











Signal Name	LIGHT_SW	GND	
Color of Wire	ш	BR	
Terminal No.	7	8	

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29	Connector Name DOOR MIRROR REMOTE CONTROL SWITCH	ITE	11 12 13 14 15 16	Signal Name	_	-
M T	me DO	lor WH	2 3 4 10 11.	Color of Wire	BR	Н
Connector No. M159	Connector Na	Connector Color WHITE	H.S.	Terminal No. Wire	15	16
91	DEVICE		2 6 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1	Signal Name	-	_
. M15	me A/T	Ε Δ	<u> </u>	Color of Wire	œ	BR
Connector No. M156	Connector Name A/T DEVICE	COLILIECTOI CO	思.H.S.	Terminal No. Wire	3	2
5	Sonnector Name HILL DESCENT CONTROL SWITCH	TE	0 0 0	Signal Name	1	ı
. M155	me HILL SWI	lor WHI	<u>0</u>	Color of Wire	æ	BR
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No. Wire	2	9

163	Connector No. E10	E10	Connector No. E26	E26
LUTCH INTERLOCK	Connector Name	Connector Name WIRE TO WIRE	Connector Na	Connector Name WIRE TO WIRE
ANCEL SWITCH	Connector Color WHITE	WHITE	Connector Color WHITE	or WHITE
НІТЕ				
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	语.S.H	1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	明.S.	1 2 3
of Signal Name	Terminal No. Wire	lor of Signal Name	Terminal No. Wire	Color of Signal Name

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33	Connector Name CLUTCH INTERLOCK CANCEL SWITCH	ITE .	6 2 1 4	Signal Name	1	1
. M163	me CLL	lor WH	3 2	Color of Wire	ш	BR
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.	2	9

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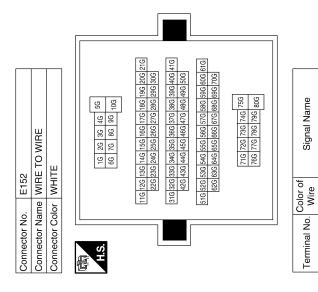
INL-41

Signal Name ı

Terminal No.

> Œ

49G 62G



Connector No.	E124	4
Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color BLACK	or BLA	CK
原 H.S.	29	58 57 61 60
Terminal No.	Color of Wire	Signal Name
25	GR	TAIL LAMP
59	В	GND (POWER)

Connector No.	. E122	.5
Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color WHITE	lor WH	ITE
画 H.S.	42 4	42 41 40 39 38 37
Terminal No.	Color of Wire	Signal Name
38	В	GND (SIGNAL)
39	_	CAN-H
40	۵	CAN-L

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< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

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VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	OFF
IGN ON SW	Ignition switch ON	ON
KEY ON SW	Mechanical key is removed from key cylinder	OFF
KET ON SW	Mechanical key is inserted to key cylinder	ON
CDL LOCK SW	Door lock/unlock switch does not operate	OFF
CDL LOCK 3W	Press door lock/unlock switch to the lock side	ON
CDL UNLOCK SW	Door lock/unlock switch does not operate	OFF
CDL UNLOCK 3W	Press door lock/unlock switch to the unlock side	ON
DOOR SW-DR	OFF	
DOOK SW-DK	Driver's door opened	ON
DOOR SW-AS	Passenger door closed	OFF
DOOK SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear RH door closed	OFF
DOOK SW-KK	Rear RH door opened	ON
DOOR SW-RL	Rear LH door closed	OFF
DOOR SW-RL	Rear LH door opened	ON
BACK DOOR SW	Back door closed	OFF
BACK DOOK SW	Back door opened	ON
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
KET CIL LK-SW	Driver door key cylinder LOCK position	ON
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF
RET CTE OIN-SW	Driver door key cylinder UNLOCK position	ON
KEYLESS LOCK	"LOCK" button of key fob is not pressed	OFF
KL I LL33 LOCK	"LOCK" button of key fob is pressed	ON
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	OFF
NETELOS ONLOCK	"UNLOCK" button of key fob is pressed	ON
ACC ON SW	Ignition switch OFF	OFF
ACC ON SW	Ignition switch ACC or ON	ON
REAR DEF SW	Rear window defogger switch OFF	OFF
REAR DEF 3W	Rear window defogger switch ON	ON
LICHT OW 1CT	Lighting switch OFF	OFF
LIGHT SW 1ST Lighting switch 1ST		ON
DIIONI E SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	OFF
BUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	ON
VEVI ECC DANIO	PANIC button of key fob is not pressed	OFF
KEYLESS PANIC	PANIC button of key fob is pressed	ON

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	OFF
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	OFF
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	OFF
RRE LOR-UNLOR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	ON
	UNLOCK button of key fob is not pressed	OFF
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	ON
LILDEAM CM	Lighting switch OFF	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CVA/A	Lighting switch OFF	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
LIEAD LAMB CVA/ C	OFF	
HEAD LAMP SW 2	ON	
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	OFF
DA COINIO CVA	Other than lighting switch PASS	OFF
PASSING SW	ON	
ED EOO OW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
RR FOG SW	NOTE: The item is indicated, but not monitored.	OFF
TUDNI OLONIAL D	Turn signal switch OFF	OFF
TURN SIGNAL R	Turn signal switch RH	ON
Turn signal switch RH Turn signal switch OFF TURN SIGNAL L		OFF
TURN SIGNAL L	Turn signal switch LH	ON
OADOO LAMBOW	Cargo lamp switch OFF	OFF
CARGO LAMP SW	Cargo lamp switch ON	ON
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	OFF
IONI OW OANI	Ignition switch OFF or ACC	OFF
IGN SW CAN	Ignition switch ON	ON
ED W//DED I !!	Front wiper switch OFF	OFF
FR WIPER HI	Front wiper switch HI	ON
ED WIDED LOW	Front wiper switch OFF	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED WIDED INT	Front wiper switch OFF	OFF
FR WIPER INT	Front wiper switch INT	ON
ED MAQUED C'A'	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
ED WIDED 07:-	Any position other than front wiper stop position	OFF
FR WIPER STOP	Front wiper stop position	ON
VEHICLE SPEED	While driving	Equivalent to speedometer reading

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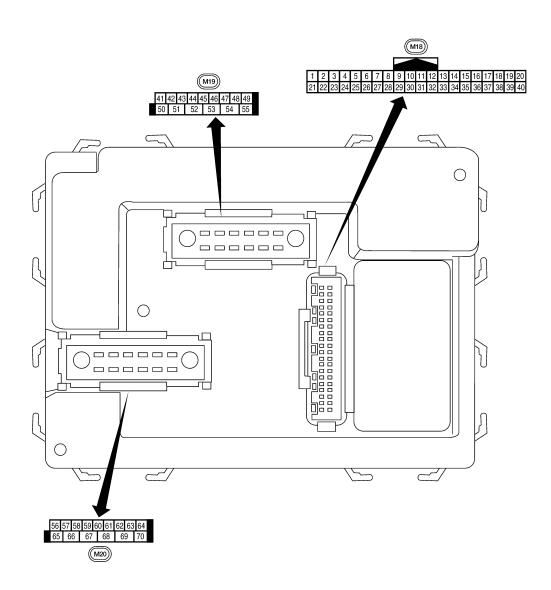
Monitor Item	Condition	Value/Status
RR WIPER ON	Rear wiper switch OFF	OFF
IXIX WIF LIX ON	Rear wiper switch ON	ON
RR WIPER INT	Rear wiper switch OFF	OFF
KK WIFEK INT	Rear wiper switch INT	ON
DD WACHED CW	Rear washer switch OFF	OFF
RR WASHER SW	Rear washer switch ON	ON
RR WIPER STOP	Any position other than rear wiper stop position	OFF
RR WIPER STOP	Rear wiper stop position	ON
H/L WASH SW	NOTE: The item is indicated, but not monitored.	OFF
LIAZADD CW	Hazard switch OFF	OFF
HAZARD SW	Hazard switch ON	ON
DDAKE OW	Brake pedal is not depressed	OFF
BRAKE SW	Brake pedal is depressed	ON
FANLONI CIC	OFF	
FAN ON SIG	Blower fan motor switch ON (other than OFF)	ON
AUD COND OW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	OFF
AIR COND SW	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	ON
TRNK OPNR SW	NOTE: The item is indicated, but not monitored.	OFF
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	OFF
HOOD SW	NOTE: The item is indicated, but not monitored.	OFF
OIL PRESS SW	Ignition switch OFF or ACC Engine running	OFF
	Ignition switch ON	ON
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	DONE
ID NEGOTI ET	ID of front LH tire transmitter is not registered	YET
ID REGST FR1	ID of front RH tire transmitter is registered	DONE
D REGOT INT	ID of front RH tire transmitter is not registered	YET
ID REGST RR1	ID of rear RH tire transmitter is registered	DONE
ID UEGOL KKI	ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	ID of rear LH tire transmitter is registered	DONE
ID NEGOT KET	ID of rear LH tire transmitter is not registered	YET
	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
BUZZER	Tire pressure warning alarm is not sounding	OFF
DOZZEN	Tire pressure warning alarm is sounding	ON

Terminal Layout

INFOID:0000000004459280



Physical Values

INFOID:0000000004459281

Α

	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
1	BR	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
I	BR	nation	Output	OFF	Door is unlocked (SW ON)	0V
2	Р	Combination switch input 5	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 + 5ms RJR@4180D
3	SB	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 + 5ms RJH@4181D
4	V	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 **5ms
5	L	Combination switch input 2				(V)
6	R	Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	6 4 2 0
		Front door lock as-			ON (open, 2nd turn)	Momentary 1.5V
7	GR	sembly LH (key cylin- der switch) and back door key cylinder switch (unlock)	Input	OFF	OFF (closed)	0V
		Front door lock as-			ON (open)	Momentary 1.5V
8	SB	sembly LH (key cylin- der switch) and back door key cylinder switch (lock)	Input	OFF	OFF (closed)	0V
9	Y	Rear window defogger switch	Input	ON	Rear window defogger switch ON	0V
		SWILCH			Rear window defogger switch OFF	5V
11	G/B	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage

	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
12	LG	Front door switch RH	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
13	L	Rear door switch RH	Input	OFF	ON (open) OFF (closed)	0V Battery voltage
15	W	Tire pressure warning check connector	Input	OFF	_	5V
18	BR	Remote keyless entry receiver and optical sensor (ground)	Output	OFF	_	0V
19	V	Remote keyless entry receiver (power supply)	Output	OFF	Ignition switch OFF	(V) 6 4 2 0
20	G	Remote keyless entry	Input	OFF	Stand-by (keyfob buttons released)	(V) 6 4 2 0 + 50 ms
20	J	receiver (signal)	mpat	OI I	When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2 0 + *50 ms
21	GR	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, then return to battery voltage.
23	G	Security indicator lamp	Output	OFF	Goes OFF \rightarrow 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, then return to battery voltage.
27	W	Compressor ON sig-	Input	ON	A/C switch OFF	5V
-1	4.4	nal	mpat	514	A/C switch ON	0V
28	R	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage
			pat	5.4	Front blower motor ON	0V
29	G	Hazard switch	Input	OFF	ON	0V
20		. Idzaid Switoil	прас	011	OFF	5V
31	R	Off-road lamps switch	Input	ON	ON	0V
		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			OFF	5V

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< ECU DIAGNOSIS >

	Wire		Signal		Measuring condition	Reference value or waveform
erminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
32	0	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 ***-5ms
33	GR	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 *********************************
34	G	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 4 2 0 +-5ms
35	BR	Combination switch output 2				(V)
36	LG	Combination switch output 1	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	** 5ms
		Key switch and key			Key inserted	Battery voltage
37	В	lock solenoid	Input	OFF	Key inserted	0V
38	W/R	Ignition switch (ON)	Input	ON	_	Battery voltage
39	L	CAN-H	_	_	_	_
40	Р	CAN-L	_	_	_	_
42	L	Off-road lamps	Output	ON	Off-road ON OFF	0V Battery voltage
43	Υ	Back door switch	Input	OFF	ON (open)	0V
.0		230K 300F 0WH0H	put	Ü. i	OFF (closed)	Battery voltage
					Rise up position (rear wiper arm on stopper)	0V
					A Position (full clockwise stop position)	Battery voltage
44	0	Rear wiper auto stop switch	Input	ON	Forward sweep (counterclockwise direction)	Fluctuating
					B Position (full counterclockwise stop position)	0V
					Reverse sweep (clockwise direction)	Fluctuating

< ECU DIAGNOSIS >

	Wire		Signal		Measuring con	dition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation	or condition	(Approx.)
45	V	Lock switch	Input	OFF	ON (lock)		0V
40	•	LOCK SWITCH	mpat	011	OFF		Battery voltage
46	LG	Unlock switch	Input	OFF	ON (unlock)		0V
40		Officer Switch	трас	011	OFF		Battery voltage
47	GR	Front door switch LH	Input	OFF	ON (open)		0V
777	OI C	Tront door Switch Err	mpat	011	OFF (closed)		Battery voltage
48	Р	Rear door switch LH	Input	OFF	ON (open)		0V
-10		rtear door owner Err	трас	011	OFF (closed)		Battery voltage
49	L	Cargo lamp	Output	OFF	Any door open	(ON)	0V
40	_	ourgo lamp	Output	011	All doors close	ed (OFF)	Battery voltage
50	W	Off-road lamps relay	Output	ON	Off-road	ON	0V
	**	On road lamps relay	Output	ON	lamps switch	OFF	Battery voltage
51	G	Trailer turn signal (right)	Output	ON	Turn right ON		(V) 15 10 500 ms RJ ₩@//8I
52	V	Trailer turn signal (left)	Output	ON	Turn left ON		(V) 15 10 500 ms BJ H@2//8I
55	W	Rear wiper output cir-	Output	ON	OFF		0
		cuit 1	- Carpar	0	ON		Battery voltage
56	V	Battery saver output	Output	OFF	30 minutes after ignition switch is turned OFF		0V
				ON	_		Battery voltage
57	R/Y	Battery power supply	Input	OFF	_		Battery voltage
59	GR	Front door lock as- sembly LH actuator	Output	OFF	OFF (neutral)		0V
33	Oit	(unlock)	Output	011	ON (unlock)		Battery voltage
60	LG	Turn signal (left)	Output	ON	Turn left ON		(V) 15 10 5 0 500 ms

< ECU DIAGNOSIS >

	Wire		Signal		Measuring con	dition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation	or condition	(Approx.)
61	G	Turn signal (right)	Output	ON	Turn right ON		(V) 15 10 500 ms BJ@//81
63	BR	Interior room/map	Output	OFF	Any door	ON (open)	0V
	DIX	lamp	Output	011	switch	OFF (closed)	Battery voltage
65	V	All door lock actuators	Output	OFF	OFF (neutral)		0V
	•	(lock)	Output	011	ON (lock)		Battery voltage
		Front door lock actua-			OFF (neutral)		0V
66	L	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 seconds after ignition switch OFF		Battery voltage
68	0	Power window power supply (RAP)	Output	_	More than 45 s	seconds after ig- FF	0V
					When front do open or power operates		0V
70	W	Battery power supply	Input	OFF	-	_	Battery voltage

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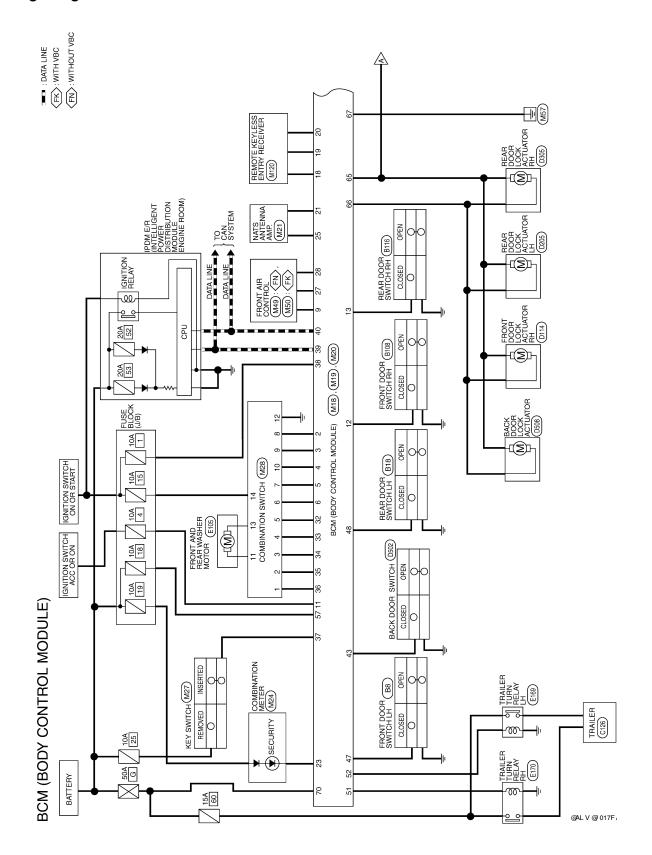
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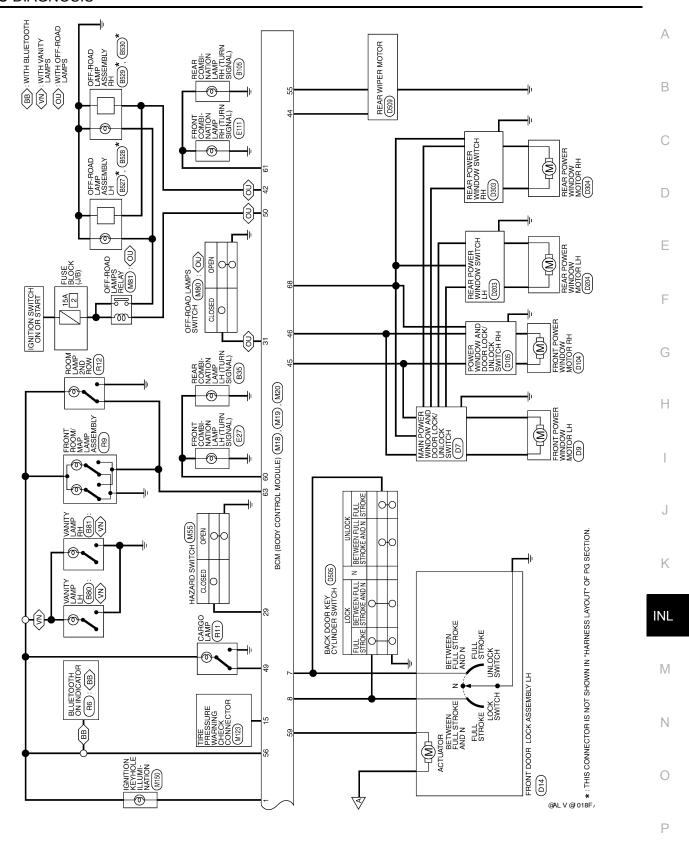
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Wiring Diagram





BCM (BODY CONTROL MODULE) CONNECTORS

Connector Name BCM (BODY CONTROL MODULE)

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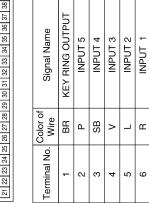
Connector No.

WHITE

Connector Color

Color of 22	Signal Name	1	SECURITY INDICATOR OUTPUT	-	IMMOBILIZER ANTENNA SIG (RX,TX)	ı	AIRCON SW	BLOWER FAN SW	HAZARD SW	I	OFF ROAD LAMP SW	OUTPUT 5	OUTPUT 4	OUTPUT 3	OUTPUT 2	OUTPUT 1	KEY SW	MS N9I	CAN-H	CAN-L
Terminal No. 22 23 24 25 26 26 29 30 30 31 34 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36	Color of Wire	ı	g	ı	BR	1	>	æ	တ		æ	0	GR	G	BR	FG	В	W/R	٦	۵
	Terminal No.	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Signal Name	KEY CYLINDER UNLOCK SW	KEY CYLINDER LOCK SW	DEFOGGER SW	ı	ACC_SW	DOOR SW (AS)	DOOR SW (RR)	I	TPMS MODE TRIGGER SW	ı	ı	KEYLESS & AUTO LIGHT SENSOR GND	KEYLESS TUNER POWER SUPPLY OUTPUT	KEYLESS TUNER SIGNAL	IMMOBILIZER ANTENNA SIGNAL
Color of Wire	GR	SB	>	1	G/B	re	_	ı	8	1	ı	BB	>	ŋ	GR
Terminal No.	2	8	6	10	#	12	13	14	15	16	17	18	19	20	21



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Connector No.). M20	0
Connector Name		BCM (BODY CONTROL MODULE)
Connector Color		BLACK
语 E.S.H	56 57 58 65 66	56 57 58 59 60 61 62 63 64 65 66 67 68 69 70
Terminal No.	Color of Wire	Signal Name
56	>	BATTERY SAVER OUTPUT
57	Ρ/Υ	BAT (FUSE)
58	-	ı
59	В	DOOR UNLOCK OUTPUT (DR)
09	ΓG	FLASHER OUTPUT (LEFT)
61	5	FLASHER OUTPUT (RIGHT)
62	1	ı
63	BR	ROOM LAMP OUTPUT
64	1	_
65	۸	DOOR LOCK OUTPUT (ALL)
99	_	DOOR UNLOCK OUTPUT (OTHER)
67	В	GND (POWER)

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Connector Name	e E	BCM (BODY CONTROL MODULE)
Connector Color	\vdash	WHITE
H.S.	1	41 42 43 44 45 46 47 48 49
Terminal No.	Color of Wire	Signal Name
41	ı	ı
42	_	PCA OUTPUT
43	٨	BACK DOOR SW
44	0	REAR WIPER AUTO STOP SW1
45	>	CDL LOCK SW
46	LG	CDL UNLOCK SW
47	GR	DOOR SW (DR)
48	Д	DOOR SW (RL)
49	Г	CARGO LAMP OUTPUT
50	>	OFF ROAD LAMP OUTPUT
51	G	TRAILER FLASHER OUTPUT (RIGHT)
52	^	TRAILER FLASHER OUTPUT (LEFT)
53	I	1
54	I	I
55	*	REAR WIPER MOTOR OUTPUT 1

DTC Inspection Priority Chart

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

< ECU DIAGNOSIS >

Priority	DTC
1	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
2	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM
3	C1729: VHCL SPEED SIG ERR C1735: IGNITION SIGNAL
4	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] FR C1719: [PRESSDATA ERR] RR C1719: [CODE ERR] RR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR

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	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_
U1000: CAN COMM CIRCUIT	_	_	BCS-31
U1010: CONTROL UNIT (CAN)	_	_	BCS-32
B2190: NATS ANTENNA AMP	_	_	SEC-18
B2191: DIFFERENCE OF KEY	_	_	<u>SEC-21</u>
B2192: ID DISCORD BCM-ECM	_	_	<u>SEC-22</u>
B2193: CHAIN OF BCM-ECM	_	_	<u>SEC-24</u>
C1708: [NO DATA] FL	_	_	<u>WT-14</u>

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Tire pressure monitor warning lamp ON	Reference page
C1709: [NO DATA] FR	_	_	<u>WT-14</u>
C1710: [NO DATA] RR	_	_	<u>WT-14</u>
C1711: [NO DATA] RL	_	_	<u>WT-14</u>
C1712: [CHECKSUM ERR] FL	_	_	<u>WT-16</u>
C1713: [CHECKSUM ERR] FR	_	_	<u>WT-16</u>
C1714: [CHECKSUM ERR] RR	_	_	<u>WT-16</u>
C1715: [CHECKSUM ERR] RL	_	_	<u>WT-16</u>
C1716: [PRESSDATA ERR] FL	_	_	<u>WT-18</u>
C1717: [PRESSDATA ERR] FR	_	_	<u>WT-18</u>
C1718: [PRESSDATA ERR] RR	_	_	<u>WT-18</u>
C1719: [PRESSDATA ERR] RL	_	_	<u>WT-18</u>
C1720: [CODE ERR] FL	_	_	<u>WT-16</u>
C1721: [CODE ERR] FR	_	_	<u>WT-16</u>
C1722: [CODE ERR] RR	_	_	<u>WT-16</u>
C1723: [CODE ERR] RL	_	_	<u>WT-16</u>
C1724: [BATT VOLT LOW] FL	_	_	<u>WT-16</u>
C1725: [BATT VOLT LOW] FR	_	_	<u>WT-16</u>
C1726: [BATT VOLT LOW] RR	_	_	<u>WT-16</u>
C1727: [BATT VOLT LOW] RL	_	_	<u>WT-16</u>
C1729: VHCL SPEED SIG ERR	_	_	<u>WT-19</u>
C1735: IGNITION SIGNAL	_	_	_

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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 Room lamp 2nd row Cargo room lamp Vanity mirror lamps (if equipped) Ignition keyhole illumination	Harness between BCM and each interior room lamp Harness between BCM and each door switch BCM	Battery saver output/power supply circuit Refer to INL-16.
Some or all of the following interior room lamps do not turn ON/OFF	Harness between BCM and each door switch Harness between BCM and each	Door switch circuit Refer to DLK-24.
Front room/map lamp assemblyRoom lamp 2nd row	interior room lamp • BCM	Interior room lamp control circuit Refer to INL-18.
Cargo lamp does not turn ON/OFF	Harness between BCM and cargo lamp BCM	Cargo lamp circuit Refer to INL-20.
Ignition keyhole illumination does not turn ON/ OFF	Harness between BCM and ignition keyhole illumination BCM	Ignition keyhole illumination circuit Refer to INL-22
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to INL-12 .
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to INL-13.

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

General precautions for service operations

- When removing or disassembling any part, be careful not to damage or deform it. Protect parts which may get in the way with cloth.
- When removing parts with a screw driver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- If an non-reuseable part is removed, replace it with a new one.
- After re-assembly has been completed, make sure each part functions correctly.
- · Never work with wet hands.
- Turn the lighting switch OFF before disconnecting and connecting the connector.
- Do not use organic solvent (paint thinner or gasoline) to clean lamps or remove sealant residue.

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ON-VEHICLE REPAIR

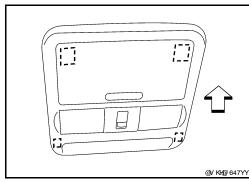
INTERIOR ROOM LAMP

Removal and Installation

MAP LAMP

Removal

The map lamp is replaced as part of the overhead console assembly. Refer to INT-19, "Removal and Installation".



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Installation

Installation is in the reverse order of removal.

Bulb Replacement

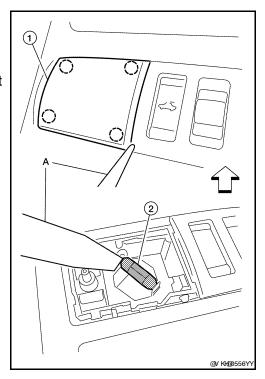
- 1. Disconnect the negative battery terminal.

CAUTION:

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

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

Map lamp bulb : 12V - 8W



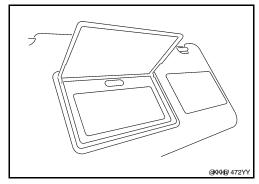
VANITY MIRROR LAMP

Removal

INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to INT-19, "Removal and Installation".



Installation

Installation is in the reverse order of removal.

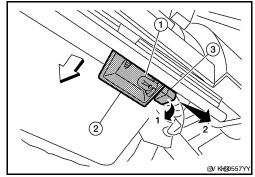
Bulb Replacement

The vanity mirror lamp bulb is replaced as part of the sunvisor assembly. Refer to INT-19, "Removal and Installation".

GLOVE BOX LAMP

Removal

- 1. Remove lower instrument panel RH and glove box. Refer to IP-11, "Removal and Installation".
- 2. Rotate glove box lamp socket (3) with bulb (1) counterclockwise, then pull away from lamp shield (2) on steering member to remove.



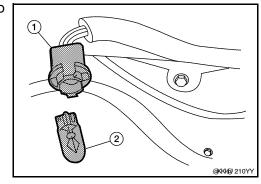
Installation

Installation is in the reverse order of removal.

Bulb Replacement

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

Glove box lamp bulb : 12V - 3.4W



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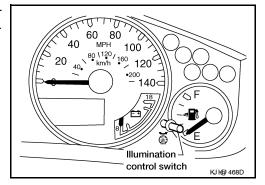
Removal and Installation

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ILLUMINATION CONTROL SWITCH

Removal

The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to MWI-90, "Removal and Installation".



Installation

Installation is in the reverse order of removal.

CARGO/PERSONAL LAMP

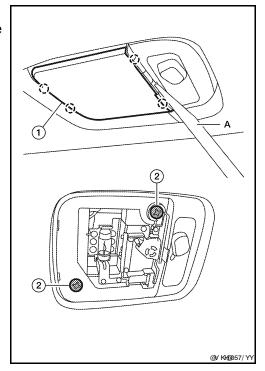
Removal

- 1. Disconnect the negative battery terminal.
- 2. Using a suitable tool (A), release the pawls and remove the cargo/personal lamp lens (1).

CAUTION:

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

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



Installation

Installation is in the reverse order of removal.

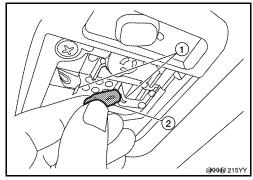
Bulb Replacement

- 1. Disconnect the negative battery terminal.
- 2. Using a suitable tool, release the pawls and remove the cargo/personal lamp lens.

< ON-VEHICLE REPAIR >

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

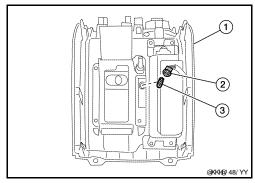
Cargo/personal lamp bulb : 12V - 8W



AT FINISHER LAMP

Removal

- 1. Remove AT finisher from center console. Refer to IP-11, "Removal and Installation".
- 2. Rotate AT finisher lamp socket (2) with bulb (3) counterclockwise, then pull away from finisher (1).



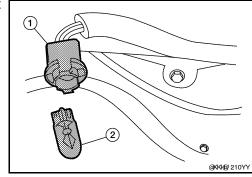
Installation

Installation is in the reverse order of removal.

Bulb Replacement

- 1. Remove AT finisher from center console. Refer to IP-11, "Removal and Installation".
- 2. Remove AT finisher lamp socket (1), then pull bulb (2) straight out away from socket.

AT finisher lamp bulb : 12V - 3W



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BULB SPECIFICATIONS

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SERVICE DATA AND SPECIFICATIONS (SDS)

BULB SPECIFICATIONS

Interior Lamp/Illumination

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Item	Wattage (W)*
Map lamp	8
Vanity lamp	*
Glove box lamp	3.4
Cargo/personal lamp	8
A/T finisher lamp	3

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