

D

Е

Κ

0

# **CONTENTS**

BASIC INSPECTION3	Description	
DIAGNOSIS AND REPAIR WORKFLOW 3	Component Function Check	
Work Flow3	Diagnosis Procedure	16
	INTERIOR ROOM LAMP CONTROL CIRCUIT	•
FUNCTION DIAGNOSIS6		18
INTERIOR ROOM LAMP CONTROL SYSTEM	Description	
	Component Function Check	
6	Diagnosis Procedure	18
System Diagram6	OTED I AMD OIDOUIT	
System Description6	STEP LAMP CIRCUIT	
Component Parts Location7	Description	
Component Description8	Component Function Check	
ILLUMINATION CONTROL SYSTEM	Diagnosis Procedure	20
ILLUMINATION CONTROL SYSTEM9	CARCO LAMB CONTROL CIRCUIT	
System Diagram9	CARGO LAMP CONTROL CIRCUIT	
System Description9	Description	
Component Parts Location9	Component Function Check	
Component Description10	Diagnosis Procedure	22
DIAGNOSIS SYSTEM (BCM)11	IGNITION KEYHOLE ILLUMINATION CON-	
COMMON ITEM11	TROL CIRCUIT	
COMMON ITEM : CONSULT-III Function (BCM -	Description	
COMMON ITEM)11	Component Function Check	
COMMON TI LIM)	Diagnosis Procedure	24
INT LAMP11	INTERIOR ROOM LAMP CONTROL SYSTEM	ĺ
INT LAMP: CONSULT-III Function (BCM - INT		
LAMP)12		26
	Wiring Diagram	26
BATTERY SAVER13	ILLUMINATION	12
BATTERY SAVER : CONSULT-III Function (BCM	Wiring Diagram	
- BATTERY SAVER)13	Willing Diagram	42
COMPONENT DIAGNOSIS15	ECU DIAGNOSIS	56
POWER SUPPLY AND GROUND CIRCUIT15	BCM (BODY CONTROL MODULE)	56
TOWER SOLT ET AND GROUND CIRCUIT15	Reference Value	
BCM15	Terminal Layout	
BCM : Diagnosis Procedure15	Physical Values	
	Wiring Diagram	
BATTERY SAVER OUTPUT/POWER SUP-	Fail Safe	
PLY CIRCUIT16	DTC Inspection Priority Chart	
	Dio mopodion i nonty onart	

ON-VEHICLE REPAIR74
INTERIOR ROOM LAMP74
Removal and Installation72
ILLUMINATION79
Removal and Installation79
SERVICE DATA AND SPECIFICATIONS (SDS)81
BULB SPECIFICATIONS

# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

Α

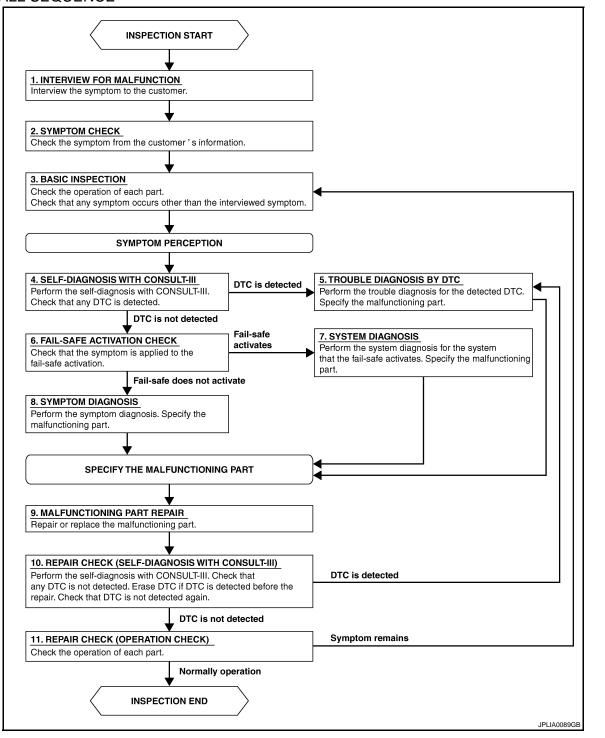
D

K

INL

Ν

# **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) Α Check the operation of each part. Does it operate normally? В >> Inspection End >> GO TO 3 YES NO С D Е F G Н J Κ INL M Ν 0

# **FUNCTION DIAGNOSIS**

# INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

INFOID:0000000003710505 Personal lamp Door 2nd row ON 그 Personal lamp Door Remote keyless Battery saver output/ 3rd row ON entry receiver Lock/unlock signal power supply Front room map lamp Door ON assembly (ALL) Puddle Door Main power lamps window switch Key cylinder Cargo Door lock/unlock Power window switch lamps ON switch serial link Front step Key cylinder lock/unlock Door lamps switch signal lock/unlock **BCM** Central door lock/unlock switch Rear step switch signal lamps Door switch (ALL) Vanity Glass hatch mirror lamps switch Key switch Step lamp control signal Insert signal Cargo lamp control signal Interior room lamp control signal

# System Description

INFOID:0000000003710506

AWLIA1065G

#### 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 (key cylinder switch)].
- When a door opens  $\rightarrow$  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 (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.

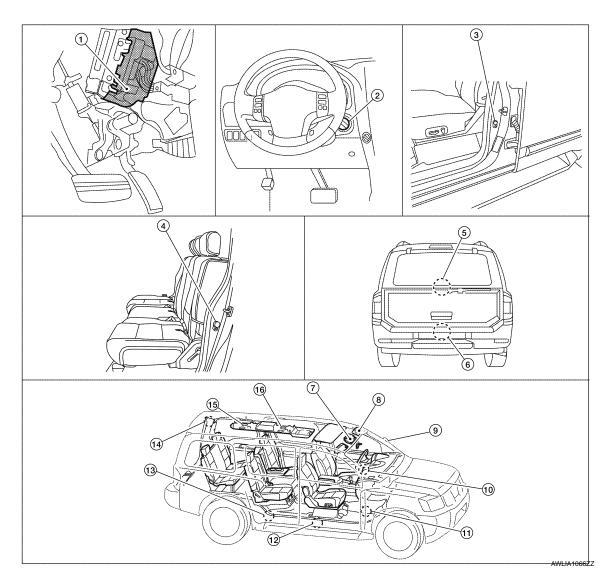
After the battery saver system turns the lamps OFF, the lamps will illuminate again when

- 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 LH lock assembly (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

INFOID:0000000003710507



- 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)
  - Glass hatch ajar switch D707
- Front door switch LH B8
   Front door switch RH B108

 Rear door switch LH B18 Rear door switch RH B116  Back door switch D502 (without power back door)
 Back door latch (door ajar switch)
 D503 (with power back door)

INL-7

В

Α

С

D

Е

F

. .

INL

K

M

Ν

# < FUNCTION DIAGNOSIS >

- 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:0000000003710508

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)	Provides key in ignition status to the bow.	
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)	Flovides back door OFEN/CLOSED status to the BCM.	
Power window and door lock/unlock switch RH	Provides door lock/unlock position switch RH status to the BCM.	
Main power window and door lock/unlock switch [front door lock assembly LH (key cylinder switch)].	Provides door lock/unlock position switch LH status to the BCM.	

# ILLUMINATION CONTROL SYSTEM

# System Diagram

Combination switch reading function IPDM E/R Combination CAN communication line всм switch TAIL LAME Illumination Parking light RELAY request signal To exterior lamps Combination meter CAN communication line Illumination control switch ALLIA0424GE

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

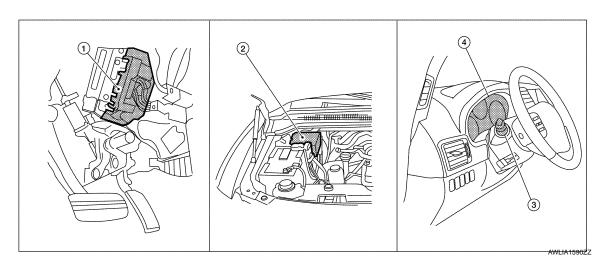
## BATTERY SAVER CONTROL

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

# Component Parts Location

INFOID:0000000003710511

INFOID:0000000003710510



- BCM M18, M20 (view with instrument 2. lower panel LH removed)
- IPDM E/R E122, E123, E124
- Combination switch M28

Combination meter (illumination control switch) M23, M24

INL-9

INL

N

Α

В

D

INFOID:0000000003710509

# **ILLUMINATION CONTROL SYSTEM**

# < FUNCTION DIAGNOSIS >

# **Component Description**

INFOID:0000000003710512

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

# **DIAGNOSIS SYSTEM (BCM)**

# < FUNCTION DIAGNOSIS >

# **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

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

INFOID:0000000004095764

Α

В

C

D

Е

F

Н

K

INL

Ν

0

Р

#### 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-53, "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	<ul> <li>Enables to read and save the vehicle specification.</li> <li>Enables to write the vehicle specification when replacing BCM.</li> </ul>	

# 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.

Cuntom	Cub quatara a alactica itara	Diagnosis mode		
System	Sub system selection item	WORK SUPPORT	DATA MONITOR	ACTIVE TEST
ВСМ	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	PANIC ALARM			×

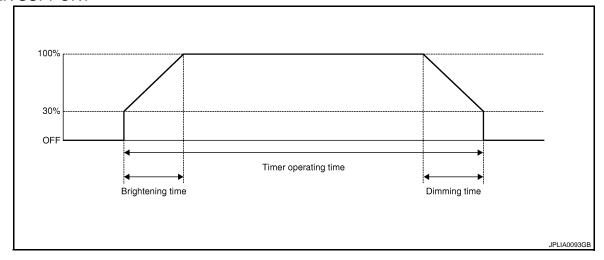
<sup>\*:</sup> With Intelligent Key

**INT LAMP** 

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

INFOID:0000000004095765

# **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-UNLOK INTOON	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.	

<sup>\*:</sup> 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	
KEYLESS LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver (integrated in the BCM)	

# **DIAGNOSIS SYSTEM (BCM)**

# < FUNCTION DIAGNOSIS >

Monitor Item [Unit]	Description
KEYLESS UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver (integrated in the BCM)
I-KEY LOCK <sup>*</sup> [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

<sup>\*:</sup> With Intelligent Key

# **ACTIVE TEST**

Test Item	Operation	Description	
INT I AMP	ON	Outputs the interior room lamp control signal to turn the interior room lamps ON.	
INT LAWP	OFF	Stops the interior room lamp control signal to turn the interior room lamps OFF.	
IGN ILLUM	ON	Outputs the ignition keyhole illumination control signal to turn the ignition keyhole illumination lamp ON.	
IGN ILLUM	OFF	Stops the ignition keyhole illumination control signal to turn the ignition keyhole illumination lamp OFF.	
STEP LAMP TEST	ON	Outputs the step lamp control signal to turn the step lamps ON.	
STEP LAIVIP 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.	
LUGGAGE LAIVIP 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:0000000004095766

# **WORK SUPPORT**

Work Item	Setting Item	Setting	
ROOM LAMP TIMER SET	MODE 1*	15 min.	Sets the interior room lamp battery saver timer operating
ROOM EAWN THMER GET	MODE 2	30 min.	time.

<sup>\*:</sup> Initial setting

# **DATA MONITOR**

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

Α

В

D

Е

F

G

Н

J

INL

. .

Ν

0

# **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)

<sup>\*:</sup> 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.
DATTERT SAVER	ON	Outputs the interior room lamp power supply to turn interior room lamps ON.*

<sup>\*:</sup> 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:0000000004095767

Α

В

D

Е

Н

# 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	Battery power supply	22 (15A)
70	Battery power supply	F (50A)
11	Ignition ACC or ON	4 (10A)
38	Ignition ON or START	59 (10A)

# Is the fuse blown?

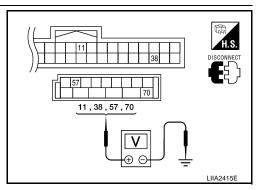
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

# 2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. 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		Ignition power supply	Ignition switch ON or START	Battery voltage	
M20	57	Ground	Battery power supply	Ignition switch OFF	Battery voltage	
IVIZU	70	Ground	Battery power supply	Ignition switch OFF	Battery voltage	



INL

K

M

Ν

#### Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

# 3. CHECK GROUND CIRCUIT

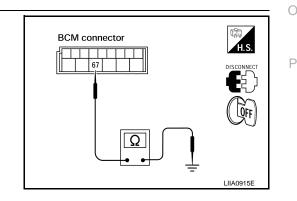
Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M20	67		Yes

#### Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



**INL-15** 

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

#### < COMPONENT DIAGNOSIS >

# BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description INFOID:000000003710517

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:0000000003710518

# 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-16, "Diagnosis Procedure".

# Diagnosis Procedure

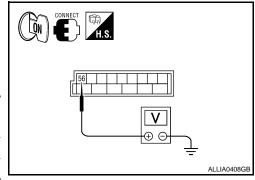
INFOID:0000000003710519

# 1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

#### (P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. 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	vollage
M20	56	Ground	OFF	0V
IVIZO	30	Olouliu	ON	Battery voltage



#### Is the inspection result normal?

YES >> GO TO 2

NO >> Replace BCM. Refer to BCS-56, "Removal and Installation".

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

- Turn ignition switch OFF.
- 2. Disconnect the following connectors.
- BCM M20
- Ignition keyhole illumination
- Front step lamp LH

# BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

#### < COMPONENT DIAGNOSIS >

- 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.

ВСМ		Each interior ro	oom lamp		Continuity
Connector	Terminal	Connector	Terminal	Continuity	
	Ignition keyhole illumination	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	
		Rear step lamp LH	D206	1	
		Rear step lamp RH	D306	1	
M20	56	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	
		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

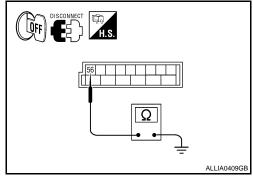
Check continuity between BCM connector M20 terminal 56 and ground.

_	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.



F

Е

D

Α

В

G

Н

K

INL

M

Ν

0

# INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

# INTERIOR ROOM LAMP CONTROL CIRCUIT

Description INFOID:000000003710520

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

#### NOTE:

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

# Component Function Check

INFOID:0000000003710521

#### **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

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

# (P)CONSULT-III

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

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

#### Is the inspection result normal?

YES >> Interior room lamp control circuit is normal. NO >> Refer to <a href="INL-18">INL-18</a>, "Diagnosis Procedure".

# Diagnosis Procedure

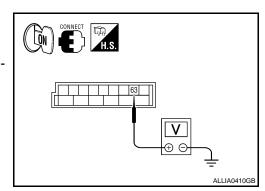
INFOID:0000000003710522

# 1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### (P)CONSULT-III

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

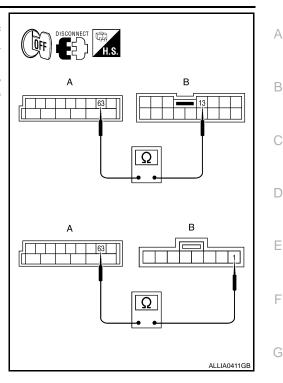
# INTERIOR ROOM LAMP CONTROL CIRCUIT

# < COMPONENT DIAGNOSIS >

- 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).

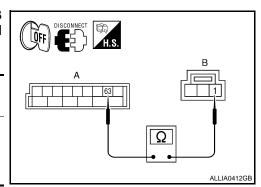
BCI	М	Interior room lamp			Continuity
Connector	Terminal	Component	Connector	Terminal	Continuity
		Door mirror LH (if equipped with puddle lamps)	D4 (B)	13	
M20 (A)	63	Door mirror RH (if equipped with puddle lamps)	D107 (B)	13	Yes
		Front room/map lamp	R102 (C)	1	

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

ВС	M	Interior room lamp			Continuity
Connector	Terminal	Component	Connector	Terminal	Continuity
M20 (A)	63	Personal lamp 2nd row	R203 (B)	1	Yes
IVIZO (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 BCS-56, "Removal and Installation". If NG, replace interior room lamp. Refer to INL-74, "Removal and Installation" or EXL-143, "Removal and Installation".
- NO >> Repair the harness or connectors.

# 3.check interior room Lamp control short circuit

- Turn ignition switch OFF.
- Disconnect BCM connector M20, door mirror connectors (if 2. equipped with puddle lamps) and 2nd and 3rd row personal lamp connectors.
- 3. Switch the front room/map lamp assembly switch to ON posi-
- Check continuity between BCM connector M20 terminal 63 and ground.

Connector	Terminal	_	Continuity
M20	63	Ground	No

#### Is the inspection result normal?

- YES >> Check interior room lamps for a short circuit. If OK, replace BCM. Refer to BCS-56, "Removal and Installation". If NG, replace interior room lamp. Refer to INL-74, "Removal and Installation" or EXL-143, "Removal and Installation".
- NO >> Repair the harness or connectors.

INL

K

Α

D

Е

F

Н

M

Ν

# STEP LAMP CIRCUIT

Description INFOID:000000003710523

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

# Component Function Check

INFOID:0000000003710524

#### **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

- 1. Turn ignition switch ON.
- Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- 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-20, "Diagnosis Procedure".

# Diagnosis Procedure

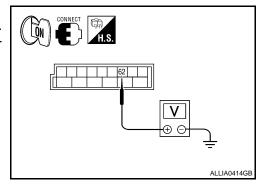
INFOID:0000000003710525

# 1. CHECK STEP LAMP OUTPUT

#### (P)CONSULT-III

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

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



#### Is the inspection result normal?

YES >> Step lamp control circuit is operating normally.

Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2

# 2.CHECK STEP LAMP OPEN CIRCUIT

# STEP LAMP CIRCUIT

#### < COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20 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		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-56</u>, "Removal and Installation". If NG, replace step lamp or foot lamp. Refer to <u>INL-74</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.

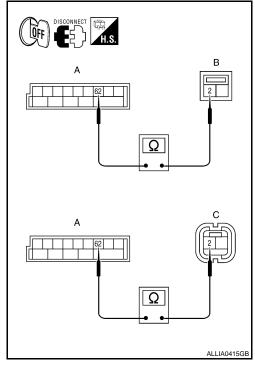
Connector	Terminal	_	Continuity
M20	62	Ground	No

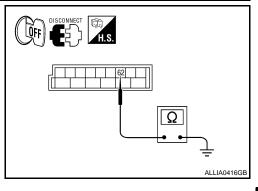
#### Is the inspection result normal?

YES >> Check step lamp or foot lamp for a short circuit. If OK, replace BCM. Refer to <u>BCS-56</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-74, "Removal and Installation".

NO >> Repair the harness or connectors.





INL

K

Α

В

D

Е

F

Н

M

N

 $\bigcirc$ 

# **CARGO LAMP CONTROL CIRCUIT**

# < COMPONENT DIAGNOSIS >

# CARGO LAMP CONTROL CIRCUIT

Description INFOID:000000003710526

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

# Component Function Check

INFOID:0000000003710527

#### **CAUTION:**

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

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

#### (P)CONSULT-III

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

ON : Cargo lamp ON OFF : Cargo lamp OFF

#### Is the inspection result normal?

YES >> Cargo lamp circuit is normal.

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

# Diagnosis Procedure

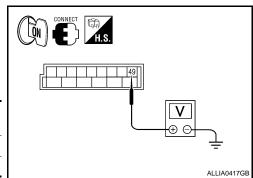
INFOID:0000000003710528

# 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
10119	49	Giodila	OFF	Battery voltage



#### Is the inspection result normal?

YES >> Cargo lamp control circuit is operating normally.

Fixed ON>>GO TO 3

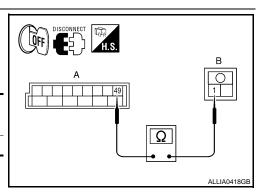
Fixed OFF>>GO TO 2

# 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 B153 (B) terminal 1.

В	CM	Cargo	o lamp	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19 (A)	49	B153 (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-56. "Removal and Installation". YES If NG, replace cargo lamp. Refer to INL-79, "Removal and Installation".
- NO >> Repair harness or connectors.

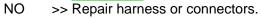
# 3.CHECK CARGO LAMP SHORT CIRCUIT

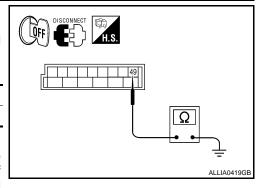
- 1. Turn ignition switch OFF.
- Disconnect BCM connector M19 and cargo lamp connector. 2.
- Check continuity between BCM connector M19 terminal 49 and ground.

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-56, "Removal and Installation". If YES NG, replace cargo lamp. Refer to INL-79, "Removal and Installation".





D

Α

В

F

Е

Н

K

INL

M

Ν

0

# IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

# IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description INFOID:000000003710529

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

# Component Function Check

INFOID:0000000003710530

#### **CAUTION:**

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

- Battery saver output/power supply circuit
- Ignition keyhole illumination bulb
- 1. CHECK IGNITION KEYHOLE ILLUMINATION OPERATION

#### (P)CONSULT-III

- 1. Turn the ignition switch ON.
- 2. 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 <u>INL-24</u>, "<u>Diagnosis Procedure</u>".

# Diagnosis Procedure

INFOID:0000000003710531

# 1. CHECK IGNITION KEYHOLE OUTPUT

#### (P)CONSULT-III

- 1. 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	
WITO	'	Ground	OFF	Battery voltage

# CONNECT II.S. ALLIA0420GB

#### 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

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

# A B B WKIA5803E

#### Is the inspection result normal?

- YES >> Check the ignition keyhole illumination for an open. If OK, replace BCM. Refer to <u>BCS-56</u>, <u>"Removal and Installation"</u>. If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.

# **IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT**

# < COMPONENT DIAGNOSIS >

# 3. CHECK IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

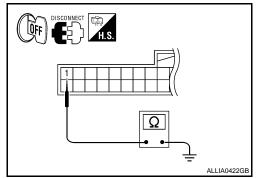
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
- 3. Check continuity between BCM connector M18 terminal 1 and ground.

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 BCS-56, "Removal and Installation". If NG, replace ignition keyhole illumination.

NO >> Repair harness or connectors.



Α

В

C

D

Е

F

G

Н

J

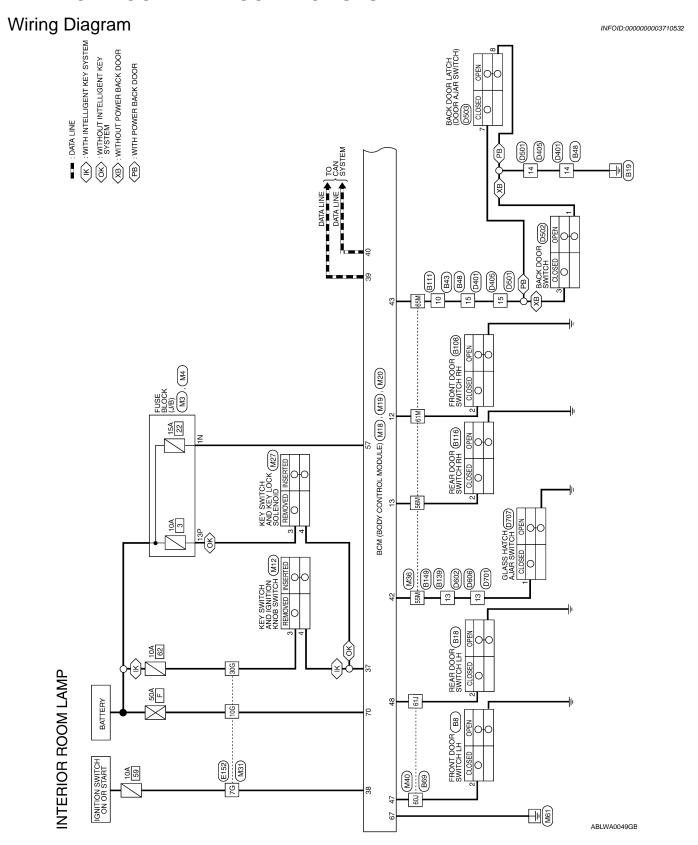
Κ

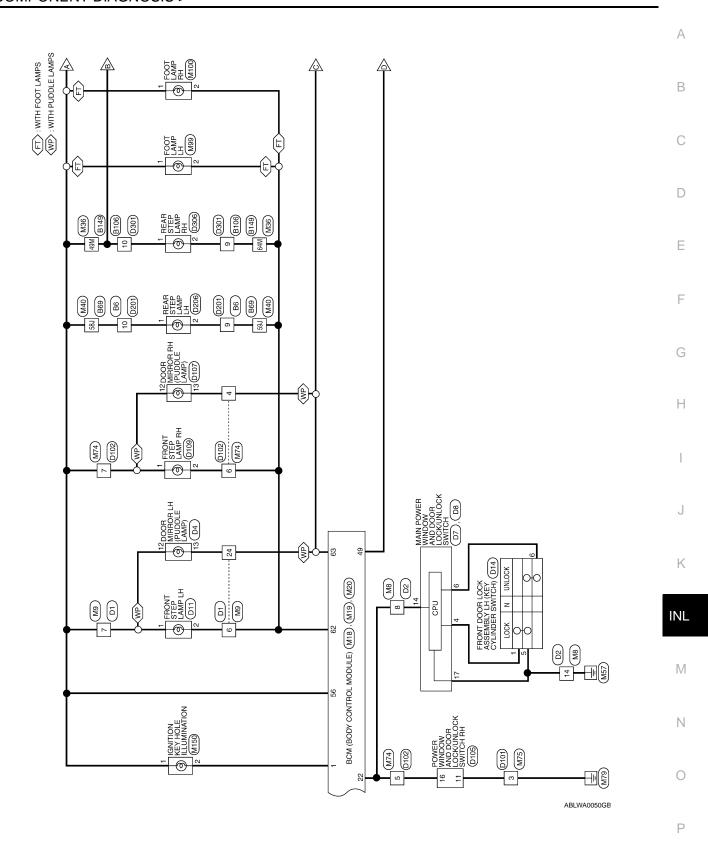
INL

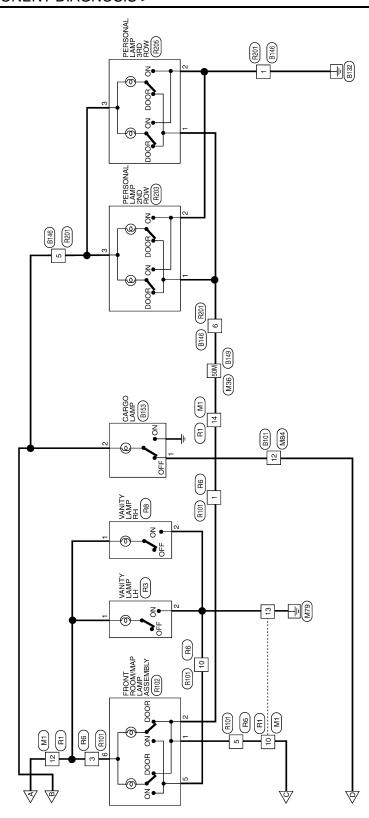
M

Ν

0







ABLWA0051GB

# < COMPONENT DIAGNOSIS >

Connector Name FUSE BLOCK (J/B)

Δ

Connector No.

Connector Color WHITE

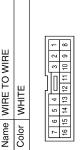
# INTERIOR ROOM LAMP CONNECTORS

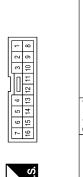
M1	WIRE TO WIRE	WHITE
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE

Connector Name FUSE BLOCK (J/B)

Connector No.

Connector Color WHITE





Signal Name	1	Î	1	ĺ
Color of Wire	T	R/G	В	ш
Terminal No. Wire	10	12	13	14

Color of Wire	Y/R				
Terminal No. Wire	Z.				
					l
Signal Name	ı	ı	ı	ı	
Color of Wire	_	R/G	В	Œ	
Color of Wire	10	12	13	14	

Signal Name

Terminal No. Wire

Signal Name

13P

Signal Name	ı	ı	_	I	
Color of Wire	_	R/G	В	ш	
Terminal No. Wire	10	12	13	14	

	N O					
	Connector Name KEY SWITCH AND IGNITION KNOB SWITCH	٨,	3 4 5 6	Signal Name	I	1
. M12	me KE)	lor GRAY	2	Color of Wire	⋆	B/R
Connector No.	Connector Na	Connector Color	H.S.	Terminal No.	3	4

r Name WIRE TO WIRE  r Color BROWN    11   10   9   8   7	•									
Color BROWN    11   10   9   8   7	Name   WI	RE	ĭ	^	lF.	Ä				
11   10   9   8   7	Color BF	õ	ΙZ							
11 10 9 8 7 6 5 4 3 2 1 24 23 22 21 20 19 18 17 16 15 14 13 12										
24         23         22         21         20         19         18         17         16         15         14         13         12			۲	ή.	П	П	П	П	П	lı
24 23 22 21 20 19 18 17 16 15 14 13 12	11 10 9 8	7	Ш	П	9	2	4	3	7	-
	24 23 22 21	20	19	18	17	16	15	14	13	12



Connector Name WIRE TO WIRE

Connector No. M8

Connector Color WHITE

	7	24 23 22 21 20 19 18 17 16			Signal N
	11 10 9 8	23 22 21 2			Color of Wire
Į Į		PZ 54	i.		Terminal No. Wire

Signal Nar	I	I	1
Color of Wire	R/W	R/G	٦
Terminal No.	9	7	24

Signal Name	ı	I	
Color of Wire	N/M	В	
Terminal No.	8	14	

ABLIA0160GB

Α

В

C

D

Е

F

G

Н

Κ

J

INL

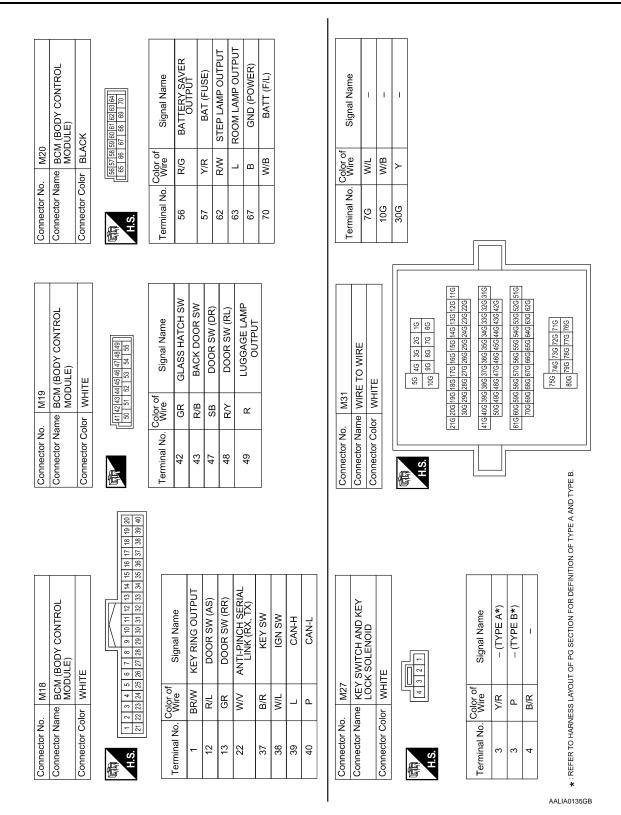
 $\mathbb{N}$ 

Ν

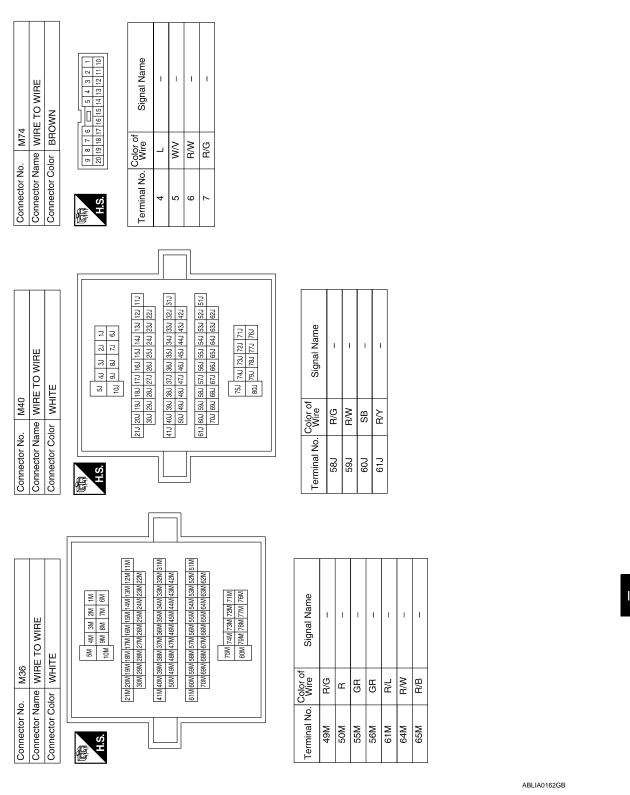
0

Ρ

# < COMPONENT DIAGNOSIS >



# < COMPONENT DIAGNOSIS >



INL-31

Α

В

C

 $\mathsf{D}$ 

Е

F

3

Н

J

K

INL

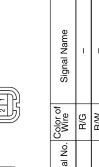
M

Ν

0

# < COMPONENT DIAGNOSIS >



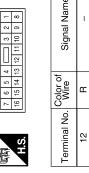


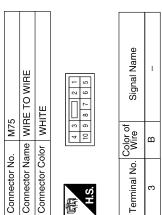












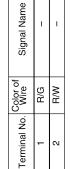






LO GMA L TOO	_	BROWN	
5	3	BRC	

E



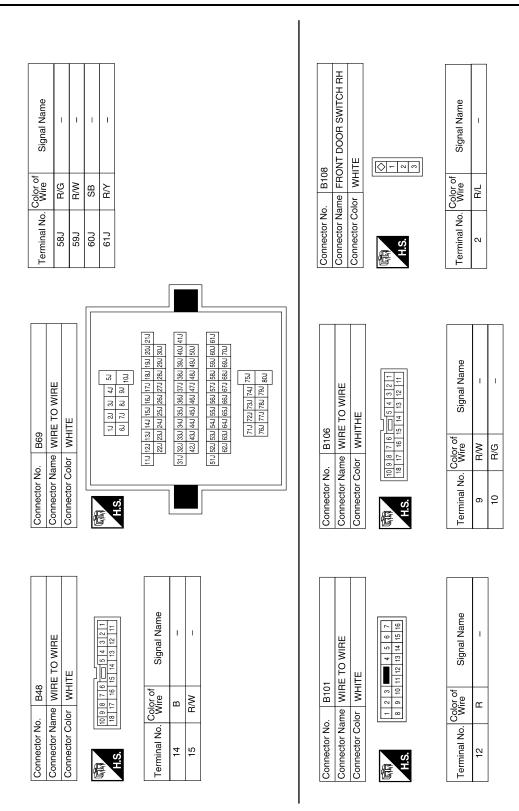
ABLIA0163GB

Connector No. M100

Connector Name Connector Color

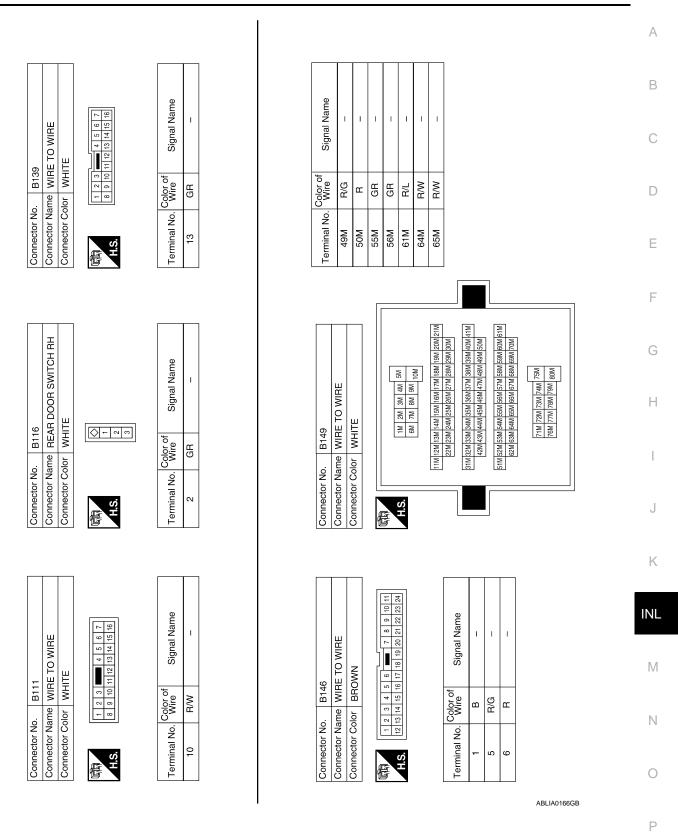
	А
	В
WHE TO WIRE  WHITE  To fiel 15 14 13 12 11  To fiel 15 14 13 12 11  WW	С
Connector No. B6 Connector Name WIRE TO WIRE Connector Color WHITE  Terminal No. Color of Signal N  Terminal No. Wire  Connector No. B43  Connector Name WIRE TO WIRE Connector No. B43  Connector Name WIRE TO WIRE  Terminal No. Color of Signal N  Terminal No. Wire Signal N  Terminal	D
Connector No.  Connector No.  Gonnector No.  Connector No.  Connector No.  Connector No.  Connector Name  Connector No.  Connector No.  Terminal No.  Will 15  H.S.  Terminal No.  Will 16  To 6  Terminal No.  Will 16  To 7  To 8  To 10  R.  To R.	Е
	F
TOTAL LH	G
Terminal No. Wire of Signal Name  7G	Н
Color of W/B	I
Terminal No. WW 30G W 30G W 30G W Connector No. Connector Name Connector Name Connector Color Terminal No. WW 2 R. P.	J
	К
16   26   36   46   56   56   576   56   576   56   576	INL
Connector No. E152  Connector Name WIRE TO WIRE  Connector Color WHITE  To 26 36 46 56 90 106  To 26 26 26 26 26 26 26 26 26 26 26 26 26	M
Connector No. E152  Connector Name WIRE TI  Connector Color WHITE  116 126 136 146 146 146 146 146 146 146 146 146 14	N
Connector No.  Connector Name	0
ABLIA01	64GB

# < COMPONENT DIAGNOSIS >



ABLIA0165GB

# < COMPONENT DIAGNOSIS >



**INL-35** 

# < COMPONENT DIAGNOSIS >

ITY LAMP LH		o section in	Signal Name	I	I			E TO WIRE	TE	4 5 6 7 11 12 13 14 15 16	Ome N Leaving	Olgridi Ivalile	ı	ı	1	
R3 ne VANITY or WHITE		Color of	Wire	B/G	В		R101	ne WIR	or WHITE	8 9 9 10 11 12 13	Color of	B &	. B/G	_	В	
Connector No. R3 Connector Name VANITY LAMP LH Connector Color WHITE	H.S.		l erminai No.	-	2		Connector No.	Connector Name WIRE TO WIRE	Connector Color	H.S.	) ON logistical		. ო	5	10	
											[		Τ			
R1 WIRE TO WIRE WHITE	2 3 4 5 6 7 8 10 11 12 13 14 15 16	Signal Name	ı	ı	1	1		VANITY LAMP RH	<u></u>			Signal Name	ı	I		
. R1 me WIRE T lor WHITE	8 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Color of Wire	Г	R/G	В	œ	R8	me VAN	lor WHITE	[- 0]		Color of Wire	R/G	В		
Connector No. Connector Name Connector Color	明.S.	Terminal No.	10	12	13	14	Connector No.	Connector Name	Connector Color	所 H.S.		Terminal No.	-	2		
				I	1						Г			1		
GO LAMP	2	Signal Name	1	1				E TO WIRE	<u></u>	14 13 12 11 10 9 8		Signal Name	1	1	ı	1
ime CARGC		Color of Wire	В	B/G			. R6	me WIRE	lor WHITE	7 6 5 4 16 15 14 13		Color of Wire	ш	B/G	_	В
Connector No. B153 Connector Name CARGO LAMP Connector Color WHITE	H.S.	Terminal No.	-	2			Connector No.	Connector Name WIRE TO WIRE	Connector Color	H.S.		Terminal No.	-	က	5	10

ABLIA0167GB

# < COMPONENT DIAGNOSIS >

Connector No. R203	Connector Name   PERSONAL LAMP	ZND ROW	Connector Color   WHITE	
R201	r Name WIRE TO WIRE	r Color BROWN		11     10     9     8     7     6     5     4     3     2     1       24     23     22     21     20     19     18     17     16     15     14     13     12
r No. R201	r Name	Color		11 10 5

Connector Name Connector Color

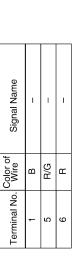
Connector Name | FRONT ROOM/MAP LAMP | ASSEMBLY

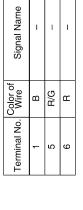
Connector No. R102

Connector Color GRAY

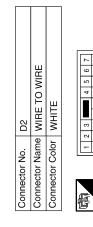
Connector No.

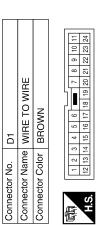
Signal Name	1	_	1
Color of Wire	В	В	R/G
Terminal No. Wire	-	2	3





	Signal Name	DOOR BATT	GND_THRU_SW	GND	BAT	
	Color of Wire	٦	В	В	B/G	
	Terminal No. Wire		2	2	9	





E TO WIRE	BROWN	NW	5 6 - 7 8 9 10	17 18 19 20 21 22	Signal Name	ı	I	ı			
ne WIF	_		2 3 4	3 14 15 1			Color of Wire	R/W	R/G	٦	
Connector Name WIRE TO WIRE	Connector Color			12 1	9		Terminal No.	9	7	24	

Signal Name

Color of Wire

Terminal No.

LG/W В

14 ω

SONAL LAMP ROW	IE.	
ERSONAL	VHITE	3 2 1



Signal Name	I	_	_	
Color of Wire	Я	В	B/G	
Terminal No.	ı	7	8	

Ν

Α

В

C

D

Е

F

G

Н

J

K

INL

 $\mathbb{N}$ 

0

Ρ

ABLIA0168GB

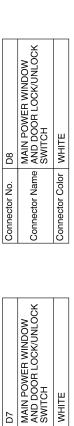
R205

Connector No.

Connector Name

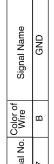
Connector Color

# < COMPONENT DIAGNOSIS >









17 18 19

	Щ		
D101	WIRE TO WIF	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color   WHITE	





D7

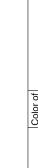


僵

Connector Color WHITE

Connector Name Connector No.

偃



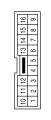
Signal Name	LOCK	NNLOCK	ANTI PINCH SERIAL LINK
Color of Wire	7	ш	LG/W
Terminal No. Wire	4	9	14

	FRONT DOOR LOCK ASSEMBLY LH	X	
D14	FRON	BLACI	
Connector No.	Connector Name   FRONT DOOR LOCK   ASSEMBLY LH	Connector Color BLACK	



Signal Name	LOCK	GND	UNLOCK
Color of Wire	7	В	В
Terminal No.	-	2	9

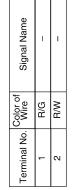






D11	Connector Name FRONT STEP LAMP LH	WHITE	
Connector No.	Connector Name	Connector Color   WHITE	





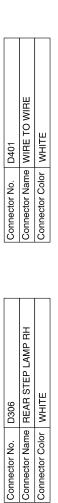
ABLIA0169GB

# < COMPONENT DIAGNOSIS >

		А
ame ER)	H H H H H H H H H H H H H H H H H H H	В
DOOR MIRROR RH	D206 REAR STEP LAMP LH WHITE  or of Signal Name G W	С
No. D107 Name (WITH A D000R D000R D010R D12 3 4 5 1 5 1 5 1 4 5 1 5 1 4		D
Connector No.  Connector Name  Connector Color  Terminal No. Col  12  13	Connector No. Connector Name Connector Color H.S.	Е
		F
ER WINDOW AND A LOCK/UNLOCK CH RH E  Signal Name GND ANTI PINCH SERIAL LINK	Name	G
POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH WHITE  WHITE  In   1   2   13   14   15   16   7   10   11   12   13   14   15   16   10   11   12   13   14   15   16   10   11   12   13   14   15   16   15   15   15   15   15   15	O WIRE	Н
	No. D201 Name WIRE T Color WHITE    12   3   4   5   1     17   2   3   4   5   1     18   8   8   1     18   8   8   8   1     19   10   10     10   10   10     10   10	I
Connector Name Connector Color  Terminal No. Color  11  16  LCO	Connector No. Connector Name Connector Color Terminal No. 9 RV 9 RV	J
		K
Vo. D102  Solor BROWN  1 2 3 4 5	Connector No. D109 Connector Name FRONT STEP LAMP RH Connector Color WHITE  ALS  Terminal No. Wire Signal Name  1 R/G -  2 R/W -	<b>INL</b>
o. D102 ame WIRE TC olor BROWN 1 2 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ame FRONT olor Whire RVG RW	N
Connector No.   D102	Connector Name Connector Color H.S.  Terminal No. Color  1 F F F F F F F F F F F F F F F F F F	0

ABLIA0170GB

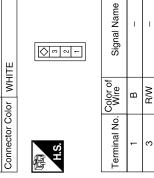
# < COMPONENT DIAGNOSIS >



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





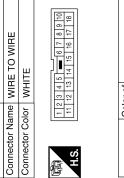


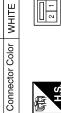




Signal Name	ı	_
Color of Wire	R/G	R/W
Terminal No.	-	2

	WIRE		18 9 10
D501	WIRE TO WIRE	WHITE	1 2 3 4 5
No.	Name	Color	1



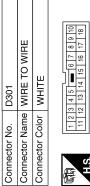


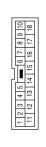


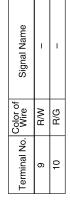
Connector No.	ă	≥
	Connector No.	Connector Name



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







Connector No. D405 Connector Name WIRE TO WIRE Connector Color WHITE	Connector No. D405 Connector Name WIRE T Connector Color WHITE
17 40 40 40 40	
10 17 16 16 10 10 11	
77 07 07 17 17 07 17	
,, 0, 0, 1, 1, 0, 1, 0	
	ì
ı	- NATATA
ı	
ı	
ı	
	[
<u>ш</u> НДМ .	Connector Colo
	Connector Nam
9	
D405	Connector No.
	14

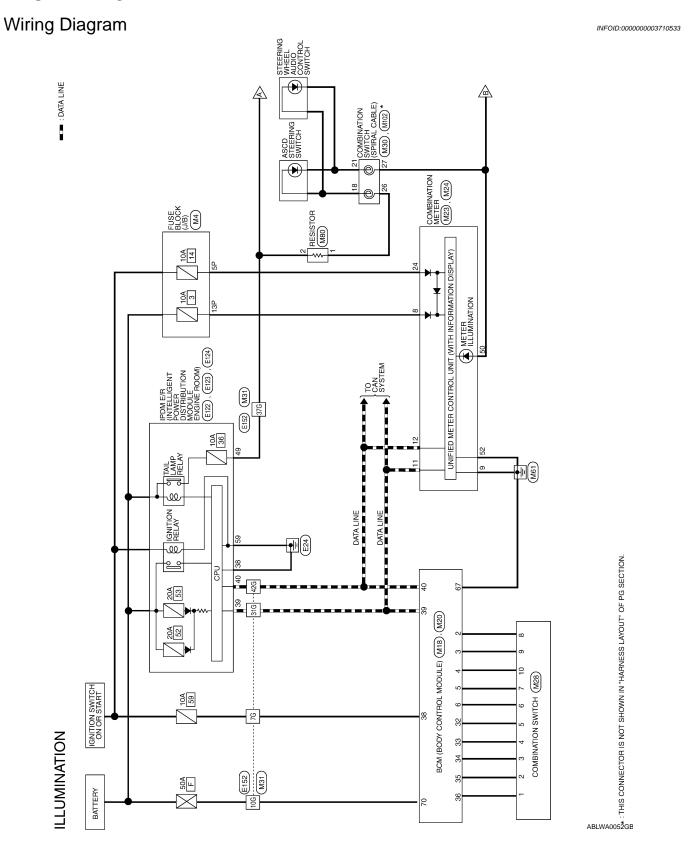


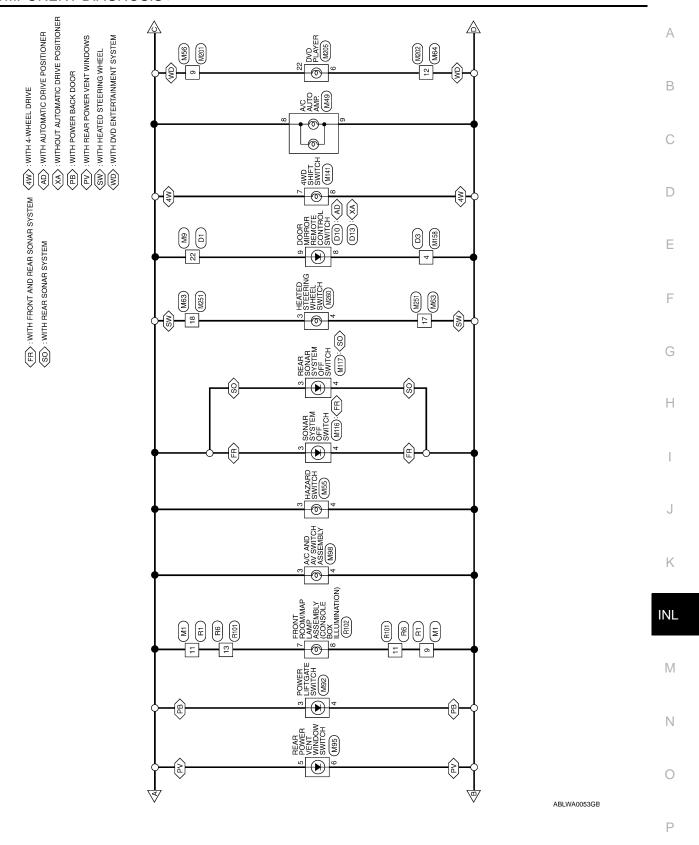
Signal Name	l	1
Color of Wire	В	R/W
Terminal No.	14	15

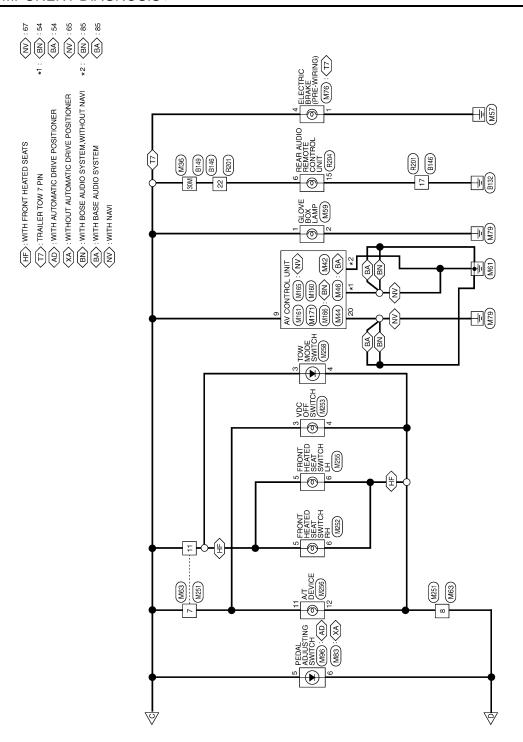
ABLIA0171GB

# < COMPONENT DIAGNOSIS >

		А
awe		В
TO WIRE 110 9 8 11 110 9 8 8 1 1 1 10 9 8 1 1 1 10 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		С
Connector No.   D606   Connector Name   WIRE TO WIRE   Connector Color   WHITE    M.S.   To   S   4   To   S   2    Terminal No.   Color of   Signal    13   GR   Signal		D
Connector No. Connector Name Connector Color H.S. H.S. Terminal No. M. M		Е
		F
lame ware	AJAR Name	G
Connector No.   D602	Signal	Н
No. D602  Name WIRE T  Color WHITE  (16 15 14 13 12 12 14 13 12 12 14 13 12 12 14 13 12 12 14 13 12 12 14 13 12 12 14 13 13 12 12 14 13 13 12 12 14 13 13 13 13 13 13 13 13 13 13 13 13 13		I
Connector No. Connector Name Connector Color Terminal No.  13 Color	Connector No. Connector Color H.S. Terminal No. WW	J
		К
Signal Name DOOR AJAR SW GND	3 WIRE	INL
		M
r Name BAC r Color WH AS RAW BAW BAW BAW BAW BAW BAW BAW BAW BAW B		N
Connector No Connector Color Connector Color Terminal No. WW	Connector No. Connector Name Connector Color Terminal No. W	0
		ABLIA0172GB







ABLWA0054GB

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

# ILLUMINATION CONNECTORS

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

Connector No. M4



16 15 14 13 12 11 10 9 8	Signal Name	ı	
16 15 14 1	Color of Wire	BR	۵/۱
H.S.	Terminal No.	6	11

	Connector Name FUSE BLOCK (J/B)	HTE	179 681 591 491 (22) 179 189 189 189 189 189 189 189 189 189 18	Signal Name	ı	1
	me FU	lor	7P 6P 5P 4P 1	Color of Wire	0//	۵
	Connector Na	Connector Color WHITE	赋利 H.S.	Terminal No. Wire	5P	130
	tor Name WIRE TO WIRE	2	7 6 5 4	Signal Name	ı	
<u>-</u>	ne WIR	tor Color WHITE	6 15 14 1	al No. Wire	BR	ă
	tor Nan	tor Colc		al No.		

_								_				
	0	Connector Name BCM (BODY CONTROL	MODULE)	ACK		56 57 58 59 60 61 62 63 64 65 66 67 68 69 70			Signal Name	GND (POWER)	BATT (F/L)	
L	M20	me BC	MO	or BL/		56 57	2		Color of Wire	В	M/B	
	Connector No.	Connector Nar		Connector Color BLACK	4	E	H.S.		Terminal No. Wire	29	70	
		e	2	4		01	_	2	4	3	.2	

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	>	R/G	R/Υ	T	O/B	B/W	M/L	٦	Ь
Terminal No.	2	ဗ	4	2	9	32	33	34	35	36	38	39	40

				18	38	
				17	37	
	ō			16	36	
	ഥ			15	35	
	N			14	34	
	Connector Name BCM (BODY CONTROL MODULE)			9 10 11 12 13 14 15 16 17 18	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	
	\		117	12	32	
	ĞΨ			Ξ	31	
	@⊒	1	N	10	30	
<u>∞</u>	뜻당	Connector Color WHITE			29	
M18	ĕĕ	≥		8	28	
	a)	_		7	27	
o.	am	응		9	26	
Connector No.	Ž	Ö		2	25	
ğ	iţ	ģ		4	24	
ရွ	) Dec	)ec	(ó	က	23	
ב	Juc	'n	H.S.	2	22	
ŏ	ŏ	ŏ		-	21	
						-

ABLIA0173GB

Α

В

С

D

Е

F

G

Н

J

Κ

INL

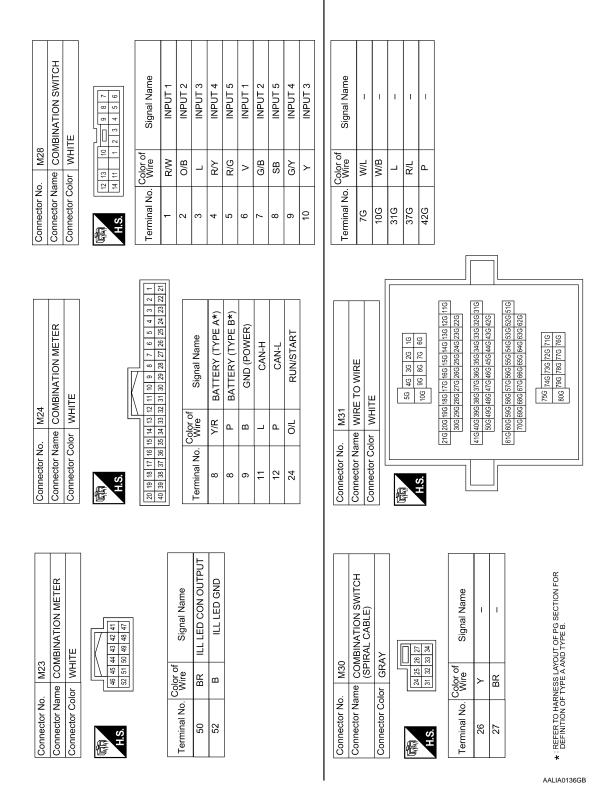
 $\mathbb{N}$ 

Ν

0

Ρ

**INL-45** 



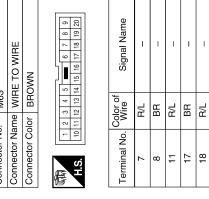
		А
ame ame	a B B B B B B B B B B B B B B B B B B B	В
No.   M44   SAV CONTROL UNIT (WITH BASE AUDIO SYSTEM   BASE AUDIO SYSTEM   SAVE STATEM   SAVE STAT	M55  HAZARD SWITCH WHITE  Sr of Signal Name  R  R	С
		D
Connector No. Connector Color H.S. (29 88 57) Terminal No. (20) S4	Connector No. Connector Name Connector Color H.S.  Terminal No. Col 3 F	Е
		F
M42  AV CONTROL UNIT (WITH BASE AUDIO SYSTEM) WHITE  2 3 4 5 6 7 8 9 2  11 2 13 14 15 16 17 18 20  11 2 13 14 18 18 18 20  11 2 13 14 18 18 18 20  11 2 13 14 18 18 18 20  11 2 13 14 18 18 18 20  11 2 13 14 18 18 18 20  11 2 13 14 18 18 18 18 20  11 2 13 14 18 18 18 18 20  11 2 13 14 18 18 18 18 20  11 2 13 14 18 18 18 18 18 18 18 18 18 18 18 18 18	M49  A/C AUTO AMP.  BLACK    0   8   7   6   5   4   3   2   1     1   2   2   2   2   3   3   1   4     1   2   2   2   3   3   3   1     2   2   2   2   3   3   3   1   4     3   2   2   2   3   3   3   1   4     3   3   2   3   3   3   1     4   5   5   5   5   5   5   5   5     5   6   7   6   5   6   5   6     6   7   7   7   7   7     7   7   7   7	G
		Н
Connector No.  Connector Name Connector Color Terminal No.  9 8 9 8 9 8	tor No	I
	Connel Co	J
		K
M36	Nun (With With Wame Name	INL M
M36   M36   M1R	COOLOGIO REPUBLICATION OF THE PUBLICATION OF THE PU	N
Connector No Conne	Connector No Connector No Connector No Connector No Connector Connector Connector Connector No C	0
	ABLIA0175GB	

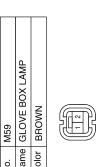
# < COMPONENT DIAGNOSIS >

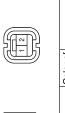




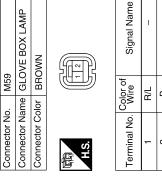
Signal Name	ı	ı	ı	1	ı
Color of Wire	B/L	BB	B/L	BR	B/L
Terminal No.	7	80	11	17	18





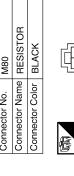






	WIRE TO WIRE	<u> </u>	3	Signal Name	-
. M56		lor WHITE	8 9 10 1	Color of Wire	B/L
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	6

08W	RESISTOR	BLACK	
Connector No.	Connector Name RESISTOR	Connector Color	



HENOI OH	BLACK		Signal		
	_	[년크]	Color of Wire	Υ	R/L
ב ה	olo				_
Collifector Name	Connector Color	崎南 H.S.	Terminal No.	ļ	2
		· · · · · · · · · · · · · · · · · · ·			

Name







Connector No.	. M64		
Connector Name WIRE TO WIRE	me WIF	E TO WIR	Е
Connector Color		BROWN	
<u> </u>			
四 1 2	3 4 5	6	8 9 10 11
H S 12 13	14 15 16	17 18 19 20	12 13 14 15 16 17 18 19 20 21 22 23 24
Terminal No. Wire	Color of Wire	Signa	Signal Name
12	BR		1

ABLIA0176GB

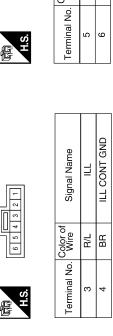
	ING SWITCH		
96W	Connector Name PEDAL ADJUSTING SWITCH	IMMOGG	NIMOUG
Connector No. M96	Connector Name	Connector Color BBOMM	
	T		
	R POWER	WINDOW SWILDIN	ш

Connector No. M92
Connector Name POWER LIFTGATE SWITCH

Connector Color GRAY

Connector Na	ame PEI	Connector Name PEDAL ADJUSTING SWITC
Connector Color		BROWN
赋 H.S.	10 4	
Terminal No. Wire	Color of Wire	Signal Name
5	R/L	1
9	BB	_

	REAR POWER VENT WINDOW SWITCH	ITE	4	Signal Name	1	1
. M95		lor WHITE	9 0 0	Color of Wire	P/L	BB
Connector No.	Connector Name	Connector Color	咸南 H.S.	Terminal No.	2	ç



							<u> </u>
91	SONAR SYSTEM OFF SWITCH	AY	4 3 2 1		Signal Name	ı	1
. M116	me SOI	lor GRAY	9 9		Color of Wire	R/L	BR
Connector No.	Connector Name	Connector Color		H.S.	Terminal No. Wire	3	4
				_			
			]			Τ	Т

		_			_	_
22	COMBINATION SWITCH (SPIRAL CABLE)	AY	77181192023	Signal Name	_	_
. M102		lor GRAY	14151617	Color of Wire	0	_
Connector No.	Connector Name	Connector Color	赋 H.S.	Terminal No. Wire	18	21

Connector Na	me A/C ASS	Connector Name A/C AND AV SWITCH ASSEMBLY		Connector Name	me COI
Connector Color WHITE	lor WH	ITE		Connector Color GR.	loi GF
H.S.	1 2 4 8 8 5 5 8	6 8 10 12 14 16 15 15 15 15 15 15 15 15 15 15 15 15 15	<u> </u>	所 H.S.	141516
Terminal No. Wire	Color of Wire	Signal Name		Terminal No.	Color of Wire
ဗ	R/L	III		18	0
	0			2	-

Connector No. M98

	6 8 10 12 14 16	5 7 9 11 13 15	Signal Name	1	ILL CONT GND
	2 4	<del>-</del>	Color of Wire	R/L	BR
F	SH		Terminal No.	က	4

ABLIA0177GB

**INL-49** 

Α

В

С

D

Е

F

G

Н

J

Κ

INL

 $\mathbb{N}$ 

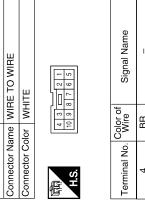
Ν

0

# < COMPONENT DIAGNOSIS >

Connector No. M141

9 8 7 6 5	Signal Name	1
4 10 9 8 8	Color of Wire	BR
Ä.	Ferminal No.	4



Connector Name	Connector Color	(10) H.S.	Terminal No. Win	4 BF		
Connector Name 4WD SHIFT SWITCH	АУ	4 c)	Signal Name	ı	ı	
me 4W	lor GR	3	Color of Wire	R/L	BB	
Connector Na	Connector Color GRAY	H.S.	Terminal No. Wire	7	8	

Signal Name	I	_
Color of Wire	B/L	BR
Terminal No.	7	8

165	Connector Name AV CONTROL UNIT (WITH NAVI)	HITE	H.S. (18   70   72   74   76   78   18   180   82   84   86   88   90   92   94   96   98   90	65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99
Connector No. M165	Connector Name AN	Connector Color WHITE	H.S.	65 67 69 71 73 75 77 7
M161	Connector Name AV CONTROL UNIT (WITH NAVI)	WHITE	10 11 12 13 14 15 16 17 18 20	lor of Signal Name
Connector No. M161	Connector Name	Connector Color WHITE	所 H.S.	Terminal No. Wire
		ĵ.		
	UNIT	HOUI NA	3 9 7 18 20	Name

Signal Name

Color of Wire ш В

Terminal No.

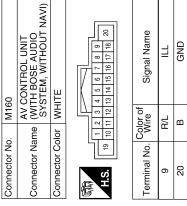
GND ⊒

20 6

R m GND

65

			ı			
	REAR SONAR SYSTEM OFF SWITCH	AY	654321	Signal Name	1	_
M117		or GRAY	9 2	Solor of Wire	R/L	BR
Connector No.	Connector Name	Connector Color	同 H.S.	Terminal No. Wire	က	4



ABLIA0178GB

Connector No. M171	M171	Connector No. M201	M201
	AV CONTROL UNIT (WITH	Connector Name	Connector Name WIRE TO WIRE
Connector Name	Connector Name	Connector Color WHITE	WHITE
Connector Color WHITE	WHITE		

Connector Name (WITH BOSE AUDIO SYSTEM, WITHOUT NAVI)

M166

Connector No.

WHITE

Connector Color

Γ	98	84	]
	37	49	
	38	20	
	39	51	
117	40	52	
IV	41	53	
- 11	42	54	
	43	55	
4	44	99	
	45	22	
	46	58	
	47	59	
L		_	ı
		ń	

	84 83 82 81 80 79 78 77 76	100 99 98 97 96 95 94 93 92	Signal Name	GND
	8 87 86 85	4 103 102 101	Color of Wire	В
H.S.	91 90 89 88	107 106 105 104 103	Terminal No. Wire	82

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

Signal Name GND

Color of Wire B

Terminal No.

M205	15		Connector No.	. M251	51
DVC	DVD PLAYER		Connector Name WIRE TO WIRE	me WIF	RE TO WIRE
WHITE	ITE		Connector Color BROWN	lor BR(	NMC
13 12 29 28	13   12   11   10   9   8   7   6   5   4   3   2   2   2   2   2   2   2   2   2	1-12	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	8 7 8 19 17 16	20 19 18 17 16 15 14 13 12 11 10
			Terminal No. Wire	Color of Wire	Signal Name
			7	R/L	1
re of	Signal Name		8	BB	1

1

RR RYL

1 | 1 | 2 |

15	DVD PLAYER	WHITE		2 11 10 9 8 7 6 5 4	3 27 26 25 24 23 22 21 20		Signal Name	ILL+	LIGHTING SW
. M205				15 14 13 12 11	32 31 30 29 28		Color of Wire	BR	B/L
Connector No.	Connector Name	Connector Color		191	H.S.		Terminal No.	9	22
			_						

		_		
E TO WIRE	BROWN	20 19 18 17 16 15 14 13 12	Signal Name	I
ne WIF	_	24 23 22 21 20 19 18	Color of Wire	BR
Connector Name   WIRE TO WIRE	Connector Color	H.S.	Terminal No. Wire	12

ABLIA0179GB

INL-51

M202

Connector No.

С

В

Α

D

Е

F

G

Н

J

Κ

INL

M

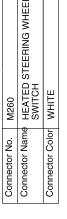
Ν

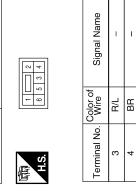
0

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

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





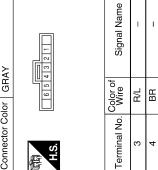








Connector No.	M258
Connector Name	Connector Name TOW MODE SWITC
Connector Color GRAY	GRAY





Connector No.





	兴		
M256	A/T DEVIC	BLACK	
Connector No.	Connector Name A/T DEVICE	Connector Color BLACK	





Signal Name	ı	-
Color of Wire	R/L	BR
Terminal No.	Ξ	12

ABLIA0180GB

						_	
24	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	ACK	29 58 57	f Signal Name	GND (POWER)		
. E124	me PC	lor BI		Color o Wire	В		
Connector No.	Connector Na	Connector Color BLACK	H.S.	Terminal No. Wire	59		
						]	
23	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM	OWN	55 54 58 52	Signal Name	ILLUMINATION		
E123	me PO	or BR	56 5	Solor of Wire	R/L		
Connector No.	Connector Nar	Connector Color BROWN	H.S.	Terminal No. Wire	49		
			<del></del>		I		I
72	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	ІТЕ	40 39 38 44 43 46 44 43	Signal Name	GND (SIGNAL)	CAN-H	CAN-L
E122	ne PO MO	or Wh	42 41 48 47	Solor of Wire	В	_	۵
Connector No.	Connector Nar	Connector Color WHITE	H.S.	Terminal No. Wire	38	36	40

Connector No. B146 Connector Name WIRF TO WIRF	Connector Color BROWN	_	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 13 14 15 16 17 18 19 20 21 22		Terminal No. Color of Wire Signal Name	17 B –	22 R/L –				
Signal Name	ı	1	1	ı	ı							
Solor of Wire	N_	M/B	_	R/L	<u>a</u>							
Terminal No. Wire	76	10G	31G	37G	42G							
Connector No. E152	Connector Color WHITE			20 00 00	8 8		226 236 246 256 266 276 286 236 306	31G 32G 33G 34G 35G 36G 37G 38G 39G 40G 41G 42G 43G 44G 45G 46G 47G 49G 49G 50G	516   526   530   540   550   550   570   580   530   610	27   27   27   27   27   27   27   27	71G 72G 73G 74G 75G 76G 77G 78G 79G 80G	

Α

В

С

D

Е

F

G

Н

Κ

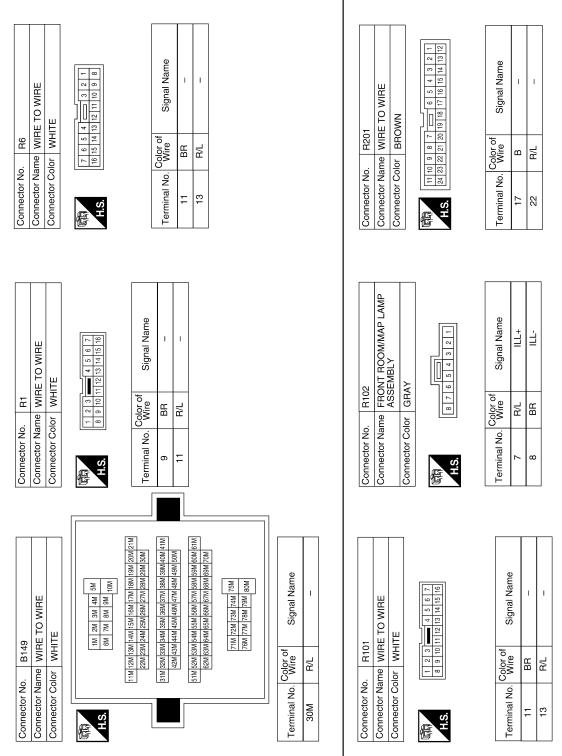
INL

 $\mathbb{N}$ 

Ν

0

Ρ



					I	ı
	E TO WIRE	<u></u>	7 8 8 7 10 10 10 10 10 10 10 10 10 10 10 10 10	Signal Name	ı	
<u> </u>	ne WIR	JC WH	- w	Solor of Wire	BB	
Connector No. D3	Connector Name WIRE TO WIRE	Connector Color   WHITE	H.S.	Terminal No. Wire	4	
	IE TO WIRE	NWC	6 W 9 10 11 12 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	Signal Name	1	
5	ne WIR	or BRC	3 4 5 6 14 15 16 17	Color of Wire	R/L	
Connector No. D1	Connector Name WIRE TO WIRE	Connector Color BROWN	H.S. 12 13 14	Terminal No. Wire	22	
						· 
4	Connector Name REAR AUDIO REMOTE	TE	12 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Signal Name	ILL+	GND
R20	me REA	or WHI	10 0 1 1 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1	Solor of Wire	R/L	В
Connector No. R204	Connector Nar	Connector Color WHITE	H.S.	Terminal No. Wire	9	15

	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)	Ш	5 6 7 2 13 14 15 16	Signal Name	1	ı
D13		or WHIT	8 9 10 11 12 13	Solor of Wire	BR	R/L
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No. Wire	80	6
	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)	ITE	1 1 2 13 14 15 16	Signal Name	ı	ı
D10		lor WF	8 9 10	Color of Wire	BB	R/L
Connector No.	Connector Name	Connector Color WHITE	Ø	Terminal No. Wire	8	6

AALIA0040GB

Α

В

С

D

Е

F

G

Н

J

Κ

INL

M

Ν

0

Р

# < ECU DIAGNOSIS >

# **ECU DIAGNOSIS**

# **BCM (BODY CONTROL MODULE)**

Reference Value

# VALUES ON THE DIAGNOSIS TOOL

AIR COND SW         A/C switch OFF         OFF           AUT LIGHT SYS         Outside of the room is dark         OFF           AUTO LIGHT SW         Lighting switch OFF         OFF           AUTO LIGHT SW         Lighting switch OFF         OFF           Lighting switch OFF         OFF           Lighting switch OFF         OFF           Lighting switch AUTO         ON           BACK DOOR SW         Back door opened         OFF           CDL LOCK SW         Door lock/unlock switch does not operate         OFF           CDL LOCK SW         Press door lock/unlock switch does not operate         OFF           CDL UNLOCK SW         Prost door lock/unlock switch does not operate         OFF           Press door lock/unlock switch does not operate         OFF           DOOR SW-AS         Front door RH closed         OFF           Pront door LH obsed	Monitor Item	Condition	Value/Status
AC switch ON	AID COND SW	A/C switch OFF	OFF
AUTO LIGHT SYS	AIR COIND 3W	A/C switch ON	ON
AUTO LIGHT SW	ALIT LICUT CVC	Outside of the room is dark	OFF
Lighting switch AUTO	AUT LIGHT STS	Outside of the room is bright	ON
Lighting switch AUTO	ALITO LICUIT CW	Lighting switch OFF	OFF
BACK DOOR SW         Back door opened         ON           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         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 opened         ON           Rear door LH opened         ON           POOR 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 OFF         OFF           Front washer switch OFF         OFF           Front washer switch OFF         OFF           Front wiper switch OFF	AUTO LIGHT SW	Lighting switch AUTO	ON
CDL LOCK SW         Door lock/unlock switch does not operate         OFF           CDL UNLOCK SW         Door lock/unlock switch does not operate         OFF           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 closed         OFF           Front door LH opened         ON           DOOR 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         ON           BOOR SW-RR         Engine stopped         OFF           Engine stopped         OFF         OFF           Engine stopped         OFF         OFF           Engine running         ON         ON           FR FOG SW         Front tog lamp switch OFF         OFF           Front tog lamp switch OFF         OFF         OFF           Front wiper switch OFF         OFF         OFF           Front wiper switch OFF         OFF         OFF           Front wiper switch OFF         OFF         OFF	DACK DOOD CW	Back door closed	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           Front door LH closed         OFF           Front door LH closed         OFF           DOOR SW-DR         Rear door LH closed         OFF           Rear door LH opened         ON           Bear door LH opened         ON           Bear door RH closed         OFF           Rear door RH opened         ON           Bengine stopped         OFF           Engine stopped         OFF           Engine stopped         OFF           Engine running         ON           Front fog lamp switch OFF         OFF           Front washer switch OFF         OFF           Front washer switch ON         ON           FR WASHER SW         Front washer switch OFF         OFF           Front wiper switch OFF<	BACK DOOR SW	Back door opened	ON
CDL UNLOCK SW         Press door lock/unlock switch does not operate         OF           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 closed         OFF           Front door LH opened         ON           DOOR SW-RL         Rear door LH closed         OFF           Rear door H closed         OFF           Rear door RH closed         OFF           Rear door RH opened         ON           Bengine stopped         OFF           Engine stopped         OFF           Engine running         ON           FR FOG SW         Front fog lamp switch OFF         OFF           Front fog lamp switch OFF         OFF           Front wiper switch OFF         OFF           Front wipe	ODL LOOK OW	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           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 closed         OFF         OFF           Rear door RH closed         ON         ON           ENGINE RUN         Engine stopped         OFF           Engine stopped         OFF         OFF           Engine stopped         OFF         OFF           Front fog lamp switch OFF         OFF         OFF           Front of glamp switch OFF         OFF         OFF           Front washer switch OFF         OFF         OFF           Front washer switch OFF         OFF         OFF           Front wiper switch OFF         OFF         OFF	CDL LOCK SW	Press door lock/unlock switch to the LOCK 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 closed         OFF           Front door LH closed         OFF           DOOR SW-RL         Rear door LH opened         ON           Bear door RH closed         OFF           Rear door RH closed         OFF           Rear door RH opened         ON           Bengine 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 wiper switch INT <td>ODL HNI OOK OW</td> <td>Door lock/unlock switch does not operate</td> <td>OFF</td>	ODL HNI OOK OW	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           DOOR SW-RL         Rear door LH closed         OFF           Bear 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 OFF         OFF           Front washer switch OFF         OFF           Front wiper switch OFF         OFF <td>CDL UNLOCK SW</td> <td>Press door lock/unlock switch to the UNLOCK side</td> <td>ON</td>	CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	ON
BOOR SW-DR         Front door LH closed         OFF           DOOR SW-RL         Rear door LH opened         ON           DOOR SW-RL         Rear door LH opened         ON           DOOR SW-RR         Rear door LH opened         ON           BOOR 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 OFF         OFF           Front washer switch OFF         OFF           Front wiper switch	DOOD OW AC	Front door RH closed	OFF
DOOR SW-DR         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           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 washer switch OFF         OFF           Front wiper stop position         OFF           When hazard switch is not pressed	DOOR SW-AS	Front door RH opened	ON
Front door LH opened	DOOD OW DD	Front door LH closed	OFF
DOOR SW-RL         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 washer switch OFF         OFF           Front wiper switch INT         ON           Any position other than front wiper stop position         OFF           Front wiper stop position         ON           HAZARD SW         When hazard switch is not pressed         OFF           When hazard switch OFF         OFF           Uighting switch OFF         OFF	DOOK SW-DR	Front door LH opened	ON
Rear door LH opened   ON	DOOD OW DI	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 washer switch ON         ON           FR WIPER LOW         Front wiper switch OFF         OFF           Front wiper switch OFF         OFF <td>DOOR SW-RL</td> <td>Rear door LH opened</td> <td>ON</td>	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         ON           FR WIPER HI         Front wiper switch OFF         OFF           Front wiper switch OFF         OFF         OFF           Front wiper switch INT         ON         ON           FR WIPER STOP         Any position other than front wiper stop position         OFF           Front wiper stop position         ON         OFF           HAZARD SW         When hazard switch is not pressed         ON           LIGHT SW 1ST         Lighting switch OFF         OFF	DOOK SW-KK	Rear door RH opened	ON
Engine running	ENGINE DUN	Engine stopped	OFF
FR FOG SW Front fog lamp switch ON 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 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 When hazard switch is not pressed When hazard switch is pressed ON Lighting switch OFF	ENGINE RUN	Engine running	ON
Front fog lamp switch ON	ED EOO 014/	Front fog lamp switch OFF	OFF
FR WASHER SW Front washer switch ON  FR WIPER LOW Front wiper switch OFF Front wiper switch OFF Front wiper switch OFF 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 When hazard switch is not pressed When hazard switch is pressed ON  Lighting switch OFF	FR FOG SW	Front fog lamp switch ON	ON
Front washer switch ON  FR WIPER LOW  Front wiper switch LO  Front wiper switch LO  ON  Front wiper switch LO  Front wiper switch OFF  Front wiper switch OFF  Front wiper switch HI  ON  Front wiper switch OFF  Front wiper switch OFF  Front wiper switch INT  ON  FR WIPER INT  Any position other than front wiper stop position  Front wiper stop position  ON  HAZARD SW  When hazard switch is not pressed  When hazard switch is pressed  ON  Lighting switch OFF  OFF	ED WACHED OW	Front washer switch OFF	OFF
FR WIPER LOW Front wiper switch LO  Front wiper switch OFF Front wiper switch HI  Front wiper switch HI  Front wiper switch OFF Front wiper switch OFF Front wiper switch INT  Any position other than front wiper stop position FR WIPER STOP Any position OFF Front wiper stop position  When hazard switch is not pressed When hazard switch is pressed  UIGHT SW 1ST  ON  OFF  OFF  OFF  OFF  OFF  OFF  OFF	FR WASHER SW	Front washer switch ON	ON
Front wiper switch LO  FR WIPER HI  Front wiper switch OFF  Front wiper switch HI  ON  Front wiper switch OFF  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  HAZARD SW  When hazard switch is not pressed  OFF  When hazard switch is pressed  ON  Lighting switch OFF  OFF	ED WIDED LOW	Front wiper switch OFF	OFF
FR WIPER HI 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 Front wiper stop position ON When hazard switch is not pressed OFF When hazard switch is pressed ON Lighting switch OFF OFF	FR WIPER 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 ON  Front wiper stop position ON  When hazard switch is not pressed OFF  When hazard switch is pressed ON  Lighting switch OFF OFF	ED WIDED HI	Front wiper switch OFF	OFF
FR WIPER INT Front wiper switch INT ON  Any position other than front wiper stop position Front wiper stop position OFF Front wiper stop position ON  HAZARD SW When hazard switch is not pressed OFF When hazard switch is pressed ON  Lighting switch OFF OFF	FR WIFER HI	Front wiper switch HI	ON
Front wiper switch INT ON  Any position other than front wiper stop position OFF  Front wiper stop position ON  HAZARD SW  When hazard switch is not pressed OFF  When hazard switch is pressed ON  Lighting switch OFF  Front wiper stop position ON  OFF  OFF	ED WIDED INT	Front wiper switch OFF	OFF
FR WIPER STOP Front wiper stop position  When hazard switch is not pressed  When hazard switch is pressed  ON  Lighting switch OFF  OFF	FR WIPER INT	Front wiper switch INT	ON
Front wiper stop position ON  When hazard switch is not pressed OFF  When hazard switch is pressed ON  Lighting switch OFF OFF	ED WIDER STOR	Any position other than front wiper stop position	OFF
HAZARD SW When hazard switch is pressed ON Lighting switch OFF OFF	FR WIPER STUP	Front wiper stop position	ON
When hazard switch is pressed ON  Lighting switch OFF OFF	HAZARD CW	When hazard switch is not pressed	OFF
LIGHT SW 1ST	HAZAKU SW	When hazard switch is pressed	ON
Lighting switch 1st ON	LICHT OW ACT	Lighting switch OFF	OFF
	LIGHT SW 151	Lighting switch 1st	ON

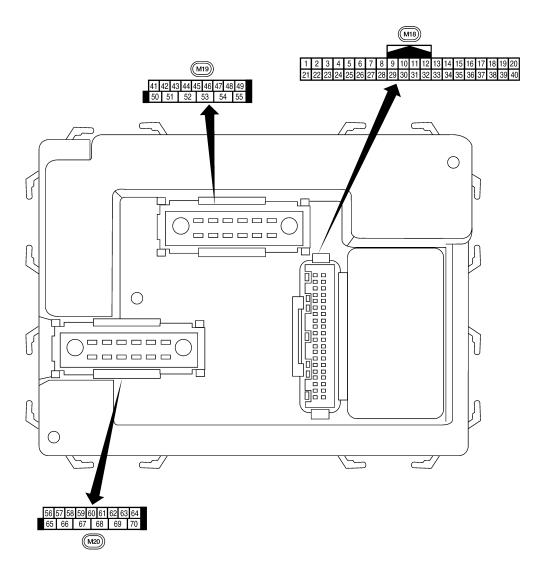
Monitor Item	Condition	Value/Status	
HEADLAMP SW1	Headlamp switch OFF	OFF	
HEADLAIMP SWI	Headlamp switch 1st	ON	
IEADI AMB CMO	Headlamp switch OFF	OFF	_
HEADLAMP SW2	Headlamp switch 1st	ON	_
II DE AM CVA	High beam switch OFF	OFF	
HI BEAM SW	High beam switch HI	ON	
H/L WASH SW	NOTE: The item is indicated, but not monitored	OFF	_
	Ignition switch OFF or ACC	OFF	
GN ON SW	Ignition switch ON	ON	
	Ignition switch OFF or ACC	OFF	
GN SW CAN	Ignition switch ON	ON	_
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	
	LOCK button of Intelligent Key is not pressed	OFF	_
-KEY LOCK <sup>1</sup>	LOCK button of Intelligent Key is pressed	ON	-
	UNLOCK button of Intelligent Key is not pressed	OFF	_
-KEY UNLOCK <sup>1</sup>	UNLOCK button of Intelligent Key is pressed	ON	
	Mechanical key is removed from key cylinder	OFF	
(EY ON SW	Mechanical key is inserted to key cylinder	ON	_
	LOCK button of key fob is not pressed	OFF	_
EYLESS LOCK <sup>2</sup>	LOCK button of key fob is pressed	ON	
	UNLOCK button of key fob is not pressed	OFF	_
KEYLESS UNLOCK <sup>2</sup>	UNLOCK button of key fob is pressed	ON	_
OIL PRESS SW	Ignition switch OFF or ACC     Engine running	OFF	
SILT REGO OVV	Ignition switch ON	ON	_
	Other than lighting switch PASS	OFF	_
PASSING SW	Lighting switch PASS	ON	_
	Return to ignition switch to LOCK position	OFF	- [
PUSH SW <sup>1</sup>	Press ignition switch	ON	_
	Rear window defogger switch OFF	OFF	_
REAR DEF SW	Rear window defogger switch ON	ON	_
RKE LOCK AND	NOTE:	OFF	_
JNLOCK <sup>2</sup>	The item is indicated, but not monitored	ON	_
	Rear washer switch OFF	OFF	_
RR WASHER SW	Rear washer switch ON	ON	
	Rear wiper switch OFF	OFF	
RR WIPER INT	Rear wiper switch INT	ON	
	Rear wiper switch OFF	OFF	_
RR WIPER ON	Rear wiper switch ON	ON	_
	Rear wiper stop position	OFF	_
RR WIPER STOP	Other than rear wiper stop position	ON	
	Lighting switch OFF	OFF	_
AIL LAMP SW	Eignang Swaton Or i	011	

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

<sup>1:</sup> With Intelligent Key

<sup>2:</sup> With remote keyless entry system

Terminal Layout



INL

Κ

Α

В

C

D

Е

F

G

Н

M

Ν

0

Р

LIIA2443E

INFOID:0000000004095759

**Physical Values** 

	100		Signal		Measuring condition	Defended
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
1	BR/W	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
I	DR/W	nation	Output	OFF	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) 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	\$\\\ 6\\\ 4\\\ 2\\\ 0\\\ \rightarrow \rightarrow 5\text{ms}\\\ \tag{SKIA5292E}
0	CD/D	Rear window defogger	lanut	ON	Rear window defogger switch ON	OV
9	GR/R	switch	Input	ON	Rear window defogger switch OFF	5V
10	G	Hazard lamp flash	Input	OFF	ON (opening or closing)	0V
10	G	Hazaru lampilasii	mput	OFF	OFF (other than above)	Battery voltage
11	0	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	R/L	Front door switch RH	Input	OFF	ON (open)	0V
	IV/L	TIOTI GOOT SWILLIT KIT	mput	OI F	OFF (closed)	Battery voltage
13	GR	Rear door switch RH	Input	OFF	ON (open)	0V
13	GK	Real door Switch RH	πραι	OFF	OFF (closed)	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

	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
19	V/W	Remote keyless entry receiver (power sup- ply)	Output	OFF	Ignition switch OFF	(V) 6 4 2 0 *********************************
20	G/W	Remote keyless entry receiver (signal)	Input	OFF	Stand-by (keyfob buttons released)	(V) 6 4 2 0 + 50 ms
		receiver (signar)			When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2 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, then return to battery voltage.
22	W/V	BUS	_	_	Ignition switch ON or power window timer operates	(V) 15 10 5 0 200 ms
23	G/O	Security indicator lamp	Output	OFF	Goes OFF → illuminates (Every 2.4 seconds)	Battery voltage → 0V
25	BR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF $\rightarrow$ ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then 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 (counterclockwise direction)	Fluctuating
					B Position (full counterclockwise stop position)	Battery voltage
					Reverse sweep (clockwise direction)	Fluctuating
27	W/R	Compressor ON sig-	Input	ON	A/C switch OFF	5V
	,	nal		J.,	A/C switch ON	0V

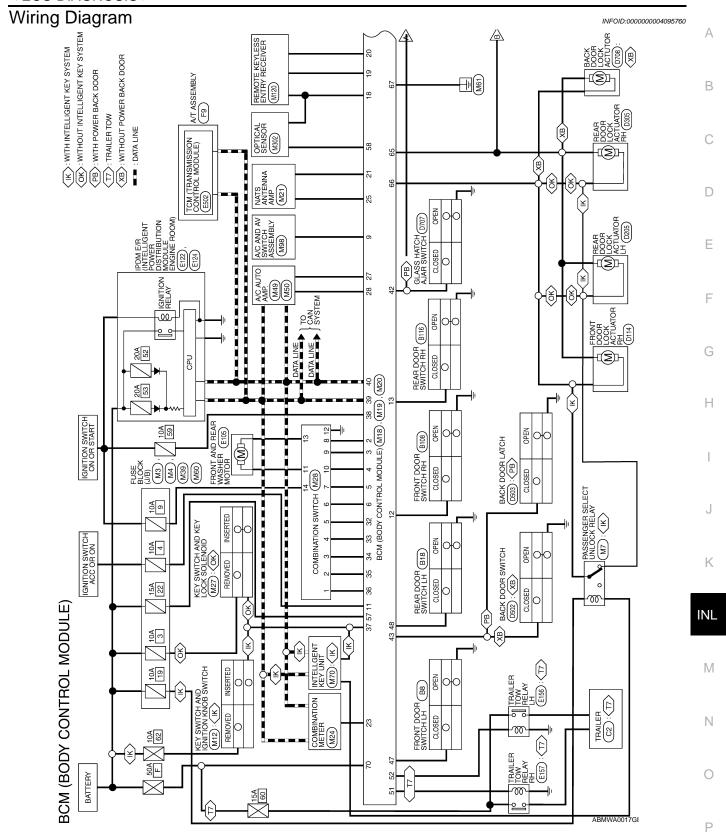
	14/:		Signal		Measuring condition	Defense and the second second
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
28	L/R	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage
20	L/1X	Tronc blower monitor	mpat	ON	Front blower motor ON	0V
29	W/B	Hazard switch	Input	OFF	ON	0V
29	W/D	Hazaru Switch	mput	OFF	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 SKIA52918
33	R/Y	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 +-5ms skia52928
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	5ms SKIA5292
o=1	D/D	Key switch and igni-	lan.it	OFF	Intelligent Key inserted	Battery voltage
37 <sup>1</sup>	B/R	tion knob switch	Input	OFF	Intelligent Key inserted	0V
37 <sup>2</sup>	B/R	Key switch and key lock solenoid	Input	OFF	Key inserted Key inserted	Battery voltage 0V
38	W/L	Ignition switch (ON)	Input	ON	<del>-</del>	Battery voltage
39	L	CAN-H	_	_	_	
40	P	CAN-L		_	_	_
42	GR	Glass hatch ajar	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

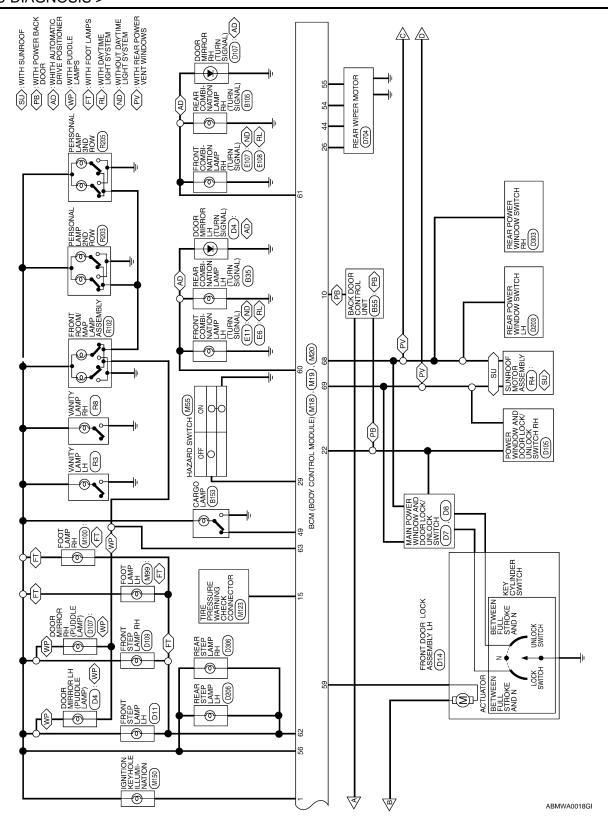
	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
					Rise up position (rear wiper arm on stopper)	0V
					A Position (full clockwise stop position)	Battery voltage
44	0	Rear wiper auto stop switch 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
	35	. Tonk abor ownor Err	iiiput	J. 1	OFF (closed)	Battery voltage
48	R/Y	Rear door switch LH	Input	OFF	ON (open)	0V
-10	1./ 1	TOOL GOOL SWITCH ELL	iiiput	<b>O</b> 11	OFF (closed)	Battery voltage
49	R	Cargo lamp	Output	OFF	Any door open (ON)	0V
		cargo ramp	Caipai		All doors closed (OFF)	Battery voltage
51	G/Y	Trailer turn signal (right)	Output	ON	Turn right ON	(V) 15 10 500 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
<del>-</del>		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

			6		Measuring con	dition	
Terminal	Wire color	Signal name	Signal input/ output	Ignition switch		or condition	Reference value or waveform (Approx.)
					When optical s	sensor is illumi-	3.1V or more
58	W/R	Optical sensor	Input	ON	When optical s	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 10 500 ms SKIA3009J
61	G/Y	Turn signal (right)	Output	ON	Turn right ON		(V) 15 10 500 ms SKIA3009J
	DAM	Cton James III and DII	Outrout	OFF	ON (any door	open)	OV
62	R/W	Step lamp LH and RH	Output	OFF	OFF (all doors	closed)	Battery voltage
63	L	Interior room/map	Output	OFF	Any door	ON (open)	0V
03	L	lamp	Output	OH	switch	OFF (closed)	Battery voltage
65	V	All door lock actuators	Output	OFF	OFF (neutral)		0V
	•	(lock)	Odipat	011	ON (lock)		Battery voltage
		Front door lock actua-			OFF (neutral)		0V
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 C	seconds after ig- DFF	0V
					When front do open or power operates		OV
69	W/R	Power window power supply	Output	_	-	_	Battery voltage
70	W/B	Battery power supply	Input	OFF	-	_	Battery voltage

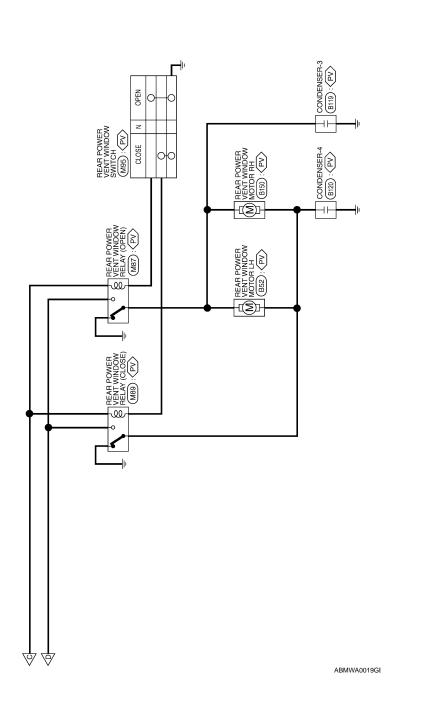
<sup>1:</sup> With Intelligent Key system

<sup>2:</sup> With remote keyless entry system





⟨PV⟩: WITH REAR POWER VENT WINDOWS



Α

В

С

D

Е

F

G

Н

J

Κ

INL

 $\mathbb{N}$ 

Ν

0

Connector Name BCM (BODY CONTROL MODULE)

Connector No. M19

Signal Name

Color of Wire

Terminal No. 16 17 8

Connector Color WHITE

KEYLESS TUNER POWER SUPPLY OUTPUT

 $\aleph$ Ø. M

19

മ

2

KEYLESS TUNER SIGNAL

20

> 22 23 24 25

9/0

BR

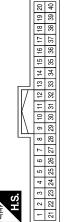
KEYLESS AND AUTO LIGHT SENSOR GND

۵

# BCM (BODY CONTROL MODULE) CONNECTORS

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

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



40			
33	I		
88	I		
37	I		
38	I		
88	I		
34			
33			
32	l		
31			
8			
53	l		
28			
27			
26	l		
32	I		
7	I		
83	I		
ដ	I		
7	l		

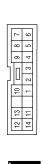
	Signal Name	1	GLASS HATCH SW	BACK DOOR SW	REAR WIPER	AUTO STOP SW1	I	ı	DOOR SW (DR)	DOOR SW (RL)	LIIGGAGELAMP	OUTPUT	I	TRAILER FLASHER	OUTPUT (RIGHT)	TRAILER FLASHER	OUTPUT (LEFT)	1	REAR WIPER MOTOR	אַ וייין טט	REARK WIFER MOLO
	Color of	1	GR	R/B	0		ı	1	SB	R/Y		В	-	G/Y	Ĵ	G/B		ı	>		SB
	Terminal No.	41	42	43	44		45	46	47	48		49	50	51		52		53	54		55
1110000	SIGNAL	IMMOBILIZEK AN I ENNA SIGNAL (CLOCK)	ANTI-PINCH SERIAL	SECTIBITY INDICATOR	OUTPUT	ı	IMMOBILIZER ANTENNA	SIGNAL(RX,TX)	REAR WIPER AUTO	STOP SW2	AIR CON SW	BLOWER FAN SW	HAZARD SW	1	ı	OUTPUT 5	OUTPUT 4	OUTPUT 3	OUTPUT 2	OUTPUT 1	KEYSW

REAR WIPER AUTO STOP SW2	AIR CON SW	<b>BLOWER FAN SW</b>	HAZARD SW	=	I	OUTPUT 5	OUTPUT 4	OUTPUT 3	OUTPUT 2	OUTPUT 1	KEY SW	IGN SW	CAN-H	CAN-L
J//	W/R	L/R	W/B	1	ı	R/G	R/Υ	٦	O/B	B/W	B/R	M/L	Т	Д
56	27	28	59	30	31	32	33	34	32	36	37	38	39	40

f Signal Name	KEY RING OUTPUT	INPUT 5	INPUT 4	INPUT 3	INPUT 2	INPUT 1	1	ı	REAR DEFOGGER SW	IVCS INPUT	ACC SW	DOOR SW (AS)	DOOR SW (RR)	ı	TPMS MODE
Color of Wire	BR/W	SB	G/Y	>	G/B	>	ı	ı	GR/R	G	0	R/L	GR	ı	Ŋ
Ferminal No.	-	2	3	4	5	9	7	8	6	10	11	12	13	14	15

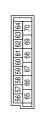
ABMIA0025GB

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



Signal Name INPUT 1 INPUT 2 INPUT 3 INPUT 4 INPUT 5 OUPUT 1 OUPUT 5 OUPUT 5 OUPUT 5	
Color of Wire RW PW CO/B RW PW CO/B CO/B CO/B CO/B CO/B CO/B CO/B CO/B	
Terminal No. 2 2 3 4 4 7 7 7 7 10 10 10 110	

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



	Ś
Æ	덩

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	ı	DOOR LOCK OUTPUT (ALL)	DOOR UNLOCK OUTPUT (OTHER)	GND (POWER)	POWER WINDOW POWER SUPPLY (RAP)	POWER WINDOW POWER SUPPLY (BAT)	BATT (F/L)	
Color of Wire	R/G	Y/R	W/R	ŋ	G/B	G/Y	B/W	_	ı	>	G/Y	В	M/L	W/R	M/B	
Terminal No.	56	22	58	59	09	61	62	63	64	65	99	29	89	69	20	

WASHER MOTOR

B W/R

5 t t 4

ABMIA0026GB

INFOID:0000000004095761

Α

В

C

D

Е

F

G

Н

Κ

INL

M

Ν

0

Fail Safe

Fail-safe index

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

# < 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.
U1010: CONTROL UNIT (CAN)	Inhibit engine cranking	When the BCM re-start communicating with the other modules.

# DTC Inspection Priority Chart

INFOID:0000000004095762

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     U1010: CONTROL UNIT (CAN)
2	<ul> <li>B2190: NATS ANTENNA AMP</li> <li>B2191: DIFFERENCE OF KEY</li> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> <li>B2013: STRG COMM 1</li> <li>B2552: INTELLIGENT KEY</li> <li>B2590: NATS MALFUNCTION</li> </ul>
3	C1729: VHCL SPEED SIG ERR
4	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1705: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RR</li> <li>C1712: [CHECKSUM ERR] FL</li> <li>C1713: [CHECKSUM ERR] FR</li> <li>C1714: [CHECKSUM ERR] RR</li> <li>C1715: [CHECKSUM ERR] RR</li> <li>C1716: [PRESSDATA ERR] FL</li> <li>C1717: [PRESSDATA ERR] FR</li> <li>C1719: [PRESSDATA ERR] RR</li> <li>C1719: [PRESSDATA ERR] RR</li> <li>C1720: [CODE ERR] FL</li> <li>C1720: [CODE ERR] FR</li> <li>C1722: [CODE ERR] RR</li> <li>C1723: [CODE ERR] RR</li> <li>C1724: [BATT VOLT LOW] FL</li> <li>C1725: [BATT VOLT LOW] RR</li> <li>C1726: [BATT VOLT LOW] RR</li> <li>C1727: [BATT VOLT LOW] RR</li> <li>C1727: [BATT VOLT LOW] RL</li> <li>C1735: [GNITION SIGNAL</li> </ul>

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.

# < ECU DIAGNOSIS >

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-31
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-32
B2013: STRG COMM 1	_	_	_	<u>SEC-26</u>
B2190: NATS ANTTENA AMP	_	_	_	SEC-29 (with I- Key), SEC-125 (without I-Key)
B2191: DIFFERENCE OF KEY	_	_	_	SEC-32 (with I- Key), SEC-128 (without I-Key)
B2192: ID DISCORD BCM-ECM	_	_	_	SEC-33 (with I- Key), SEC-129 (without I-Key)
B2193: CHAIN OF BCM-ECM	_	_	_	SEC-35 (with I- Key), SEC-131 (without I-Key)
B2552: INTELLIGENT KEY	_	_	_	<u>SEC-37</u>
B2590: NATS MALFUNCTION	_	_	_	<u>SEC-38</u>
C1704: LOW PRESSURE FL	_	_	_	<u>WT-33</u>
C1705: LOW PRESSURE FR	_	_	_	<u>WT-33</u>
C1706: LOW PRESSURE RR	_	_	_	<u>WT-33</u>
C1707: LOW PRESSURE RL	_	_	_	<u>WT-33</u>
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		_	_	_

**INL-71** 

# **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-16.
Some or all of the following interior room lamps do not turn ON/OFF  • Puddle lamps (if equipped)	Harness between BCM and each door switch     Harness between BCM and each	Door switch circuit Refer to <u>DLK-72</u> (with Intelligent-Key) or <u>DLK-267</u> (without Intelligent-Key).
<ul><li>Front room/map lamp assembly</li><li>Personal lamp 2nd row</li><li>Personal lamp 3rd row</li></ul>	interior room lamp • BCM	Interior room lamp control circuit Refer to INL-18.
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-20.
Cargo lamp does not turn ON/OFF	Harness between BCM and cargo lamp     BCM	Cargo lamp control circuit Refer to INL-22.
Ignition keyhole illumination does not turn ON/OFF	Harness between BCM and ignition keyhole illumination     BCM	Ignition keyhole illumination control circuit Refer to INL-24
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-

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.

INL

K

Α

D

Е

INFOID:0000000003710537

N

# **ON-VEHICLE REPAIR**

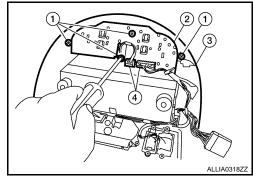
# INTERIOR ROOM LAMP

# Removal and Installation

#### MAP LAMP

#### Removal

- 1. Disconnect the negative battery terminal.
- 2. Remove overhead console (3). Refer to <a href="INT-16">INT-16</a>, "Removal and Installation".
- 3. Disconnect connectors (4) and remove the map lamp screws (1), then remove map lamp (2) from overhead console.



INFOID:0000000003710538

#### Installation

Installation is in the reverse order of removal.

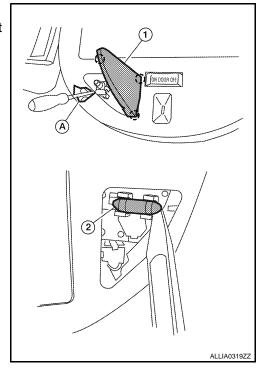
# **Bulb Replacement**

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

Map lamp bulb : 12V - 8W

#### **CAUTION:**

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



# VANITY MIRROR LAMP

#### Remova

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to <a href="INT-16">INT-16</a>, "Removal and Installation".

#### Installation

Installation is in the reverse order of removal.

**Bulb Replacement** 

# INTERIOR ROOM LAMP

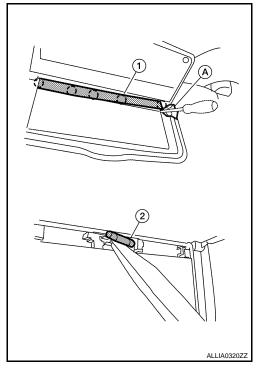
# < ON-VEHICLE REPAIR >

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

Vanity mirror lamp bulb : 12V - 1.8W

#### **CAUTION:**

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



**GLOVE BOX LAMP** 

Removal

- 1. Remove instrument lower panel RH and glove box. Refer to <a href="IP-16">IP-16</a>, "Removal and Installation".</a>
- 2. Rotate glove box lamp socket and rotate counterclockwise to release from steering member.

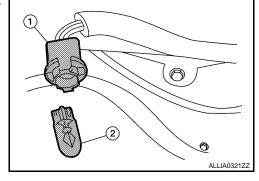
Installation

Installation is in the reverse order of removal.

**Bulb Replacement** 

- 1. Disconnect the negative battery terminal.
- Remove instrument lower panel RH and glove box. Refer to <u>IP-16, "Removal and Installation"</u>.
- Pull bulb (2) straight out from glove box lamp socket (1) to remove.

Glove box lamp bulb : 12V - 3.4W



STEP LAMP

Removal

В

Α

С

D

Е

F

G

Н

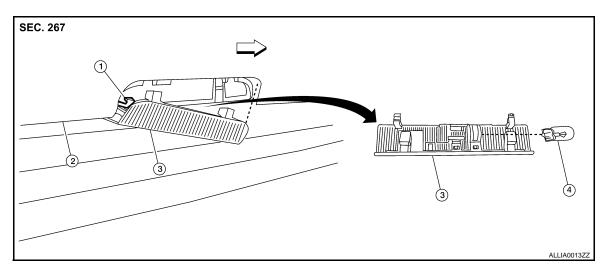
INL

K

N

M

0



- Step lamp connector
- Door finisher

Step lamp lens/socket

Step lamp bulb

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

#### Installation

Installation is in the reverse order of removal.

# **Bulb Replacement**

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

Step lamp bulb : 12V - 3.8W

# PERSONAL LAMP (if equipped)

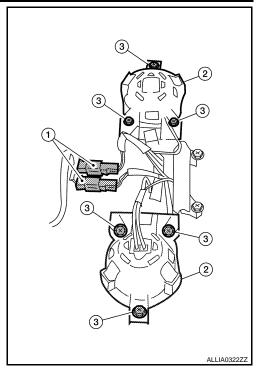
# Removal

Disconnect the negative battery terminal.

# INTERIOR ROOM LAMP

# < ON-VEHICLE REPAIR >

- Remove overhead console. Refer to <u>INT-16</u>, "Removal and Installation".
- 3. Remove personal lamp screws (3).
- 4. Disconnect personal lamp electrical connectors (1), then remove personal lamps (2) from overhead console.



Installation

Installation is in the reverse order of removal.

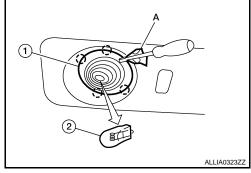
# **Bulb Replacement**

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

Personal lamp bulb : 12V - 6W

# **CAUTION:**

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

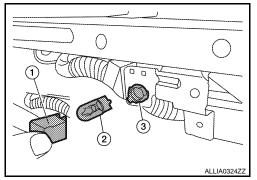


INL

#### FOOTWELL LAMP

#### Removal

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



Installation

Installation is in the reverse order of removal.

**Bulb Replacement** 

INL-77

Α

В

С

D

Е

F

G

Н

ı

J

K

M

Ν

0

# **INTERIOR ROOM LAMP**

# < ON-VEHICLE REPAIR >

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

Footwell lamp bulb : 12V - 3.4W

# Removal and Installation

#### INFOID:0000000003710539

Α

В

D

Е

Н

K

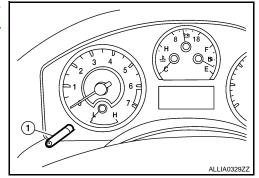
INL

M

# **ILLUMINATION CONTROL SWITCH**

# Removal

The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to <a href="MWI-105">MWI-105</a>, "Removal and Installation".



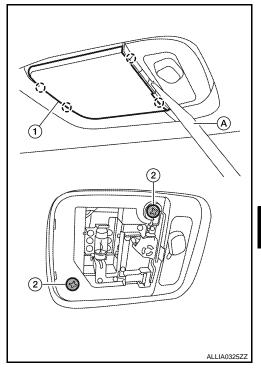
#### Installation

Installation is in the reverse order of removal.

# CARGO LAMP (if equipped)

#### Removal

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



#### Installation

Installation is in the reverse order of removal.

# **Bulb Replacement**

1. Disconnect the negative battery terminal.

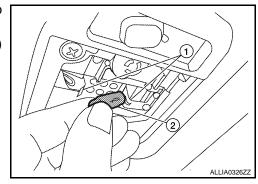
Ρ

Ν

# < ON-VEHICLE REPAIR >

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

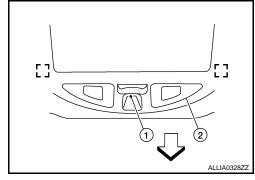
Cargo lamp bulb : 12V - 8W



# CONSOLE ILLUMINATION LAMP (if equipped)

#### Removal

The console illumination lamp (1) is replaced as part of the map lamp assembly (2). Refer to <a href="INL-74">INL-74</a>, "Removal and Installation". ⇐: Vehicle front

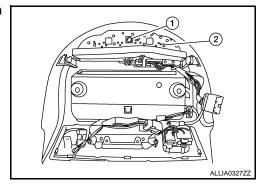


#### Installation

Installation is in the reverse order of removal.

# **Bulb Replacement**

- 1. Disconnect the negative battery terminal.
- 2. Remove overhead console. Refer to INT-16, "Removal and Installation".
- 3. Rotate console illumination lamp bulb (1) counterclockwise, then pull straight out away from map lamp assembly (2) to remove.



# **BULB SPECIFICATIONS**

< SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS)

# **BULB SPECIFICATIONS**

# Interior Lamp/Illumination

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

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

G

Α

В

C

D

Е

F

INFOID:0000000003710540

Н

J

K

INL

M

Ν

0