

# **CONTENTS**

BASIC INSPECTION3
DIAGNOSIS AND REPAIR WORKFLOW 3 Work Flow
SYSTEM DESCRIPTION5
INTERIOR ROOM LAMP CONTROL SYSTEM
System Diagram 5 System Description 5 Component Parts Location 7 Component Description 7
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM8
System Diagram
ILLUMINATION CONTROL SYSTEM11System Diagram11System Description11Component Parts Location12Component Description12
DIAGNOSIS SYSTEM (BCM)13
COMMON ITEM
INT LAMP
BATTERY SAVER
DTC/CIRCUIT DIAGNOSIS18

POWER SUPPLY AND GROUND CIRCUIT	18
BCM : Diagnosis Procedure	1 <b>8</b> 18
INTERIOR ROOM LAMP POWER SUPPLY	10
Description	19
Component Function Check  Diagnosis Procedure	
_	
INTERIOR ROOM LAMP CONTROL CIRCUI	I 21
Description	21
Component Function Check	
Diagnosis Procedure	
STEP LAMP CIRCUIT  Description	
Component Function Check	
Diagnosis Procedure	23
PUSH-BUTTON IGNITION SWITCH ILLUMI NATION CIRCUIT	
Description	
Component Function Check	
Diagnosis Procedure	
INTERIOR ROOM LAMP CONTROL SYSTEI	
Wiring Diagram - INTERIOR ROOM LAMP	
ILLUMINATION	
Wiring Diagram - ILLUMINATION	38
ECU DIAGNOSIS INFORMATION	54
BCM (BODY CONTROL MODULE)	
Reference Value Wiring Diagram - BCM	
Fail-safe	
DTC Inspection Priority Chart	

D

Е

F

Н

J

Κ

INL

Ν

0

DTC Index 85	ROOF CENTER	112
COMBINATION METER88	ROOF CENTER : Replacement	112
Reference Value	VANITY MIRROR LAMP	442
Wiring Diagram - METER	Exploded View	
Fail-Safe105	Replacement	
DTC Index106	Replacement	110
DTO IIIdox100	CONSOLE POCKET LAMP	114
SYMPTOM DIAGNOSIS108	Exploded View	114
	Replacement	114
INTERIOR LIGHTING SYSTEM SYMPTOMS. 108	ASHTRAY ILLUMINATION	
Symptom Table108		_
PRECAUTION109	Exploded View	
1 NEOAO 11014109	Replacement	115
PRECAUTIONS 109	GLOVE BOX LAMP	116
	Exploded View	116
FOR USA AND CANADA109	Replacement	
FOR USA AND CANADA: Precaution for Supple-	·	
mental Restraint System (SRS) "AIR BAG" and	STEP LAMP	
"SEAT BELT PRE-TENSIONER"109	Exploded View	
FOR MEXICO109	Removal and Installation	
FOR MEXICO: Precaution for Supplemental Re-	Replacement	117
straint System (SRS) "AIR BAG" and "SEAT BELT	PERSONAL LAMP	118
PRE-TENSIONER"109	Exploded View	
DEMOVAL AND INCTALLATION	Removal and Installation	
REMOVAL AND INSTALLATION111	Replacement	
MAP LAMP 111		
Exploded View111	LUGGAGE ROOM LAMP	
Removal and Installation111	Exploded View	
Replacement111	Removal and Installation	
	Replacement	120
MOOD LAMP 112	SERVICE DATA AND SPECIFICATIONS	
MAP LAMP112	(SDS)	121
MAP LAMP : Replacement112	(000)	121
·	SERVICE DATA AND SPECIFICATIONS	
FRONT DOOR GRIP112	(SDS)	121
FRONT DOOR GRIP : Replacement112	Bulb Specifications	
	•	

## **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

Α

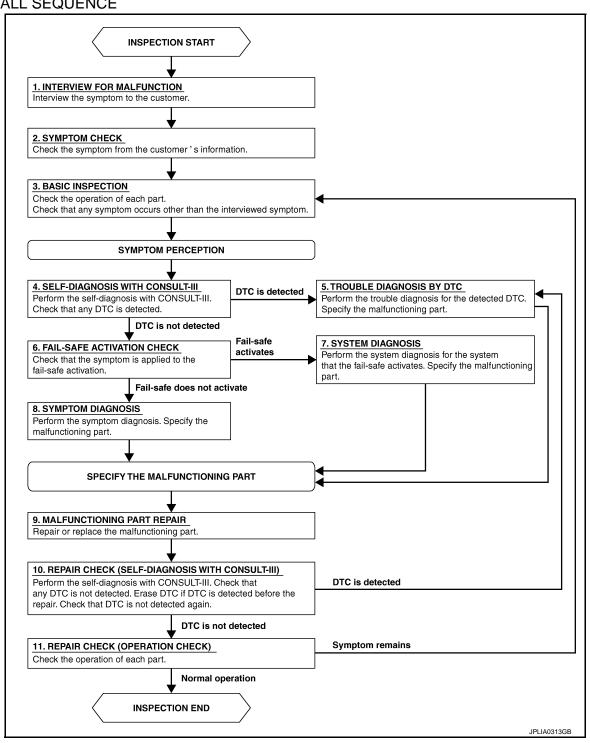
D

K

INL

Ν

## **OVERALL SEQUENCE**



#### **DETAILED FLOW**

## 1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

#### **DIAGNOSIS AND REPAIR WORKFLOW**

#### < BASIC INSPECTION >

>> GO TO 2.

## 2.SYMPTOM CHECK

Check the symptom from the customer's information.

>> GO TO 3.

## 3.BASIC INSPECTION

Check the operation of each part. Check that any symptom occurs other than the interviewed symptom.

>> 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

Check that the symptom is applied to the 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 that 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. Check that any DTC is not detected. Erase DTC if DTC is detected before the repair. Check that DTC is not detected again.

#### Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 11.

# 11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

#### Does it operate normally?

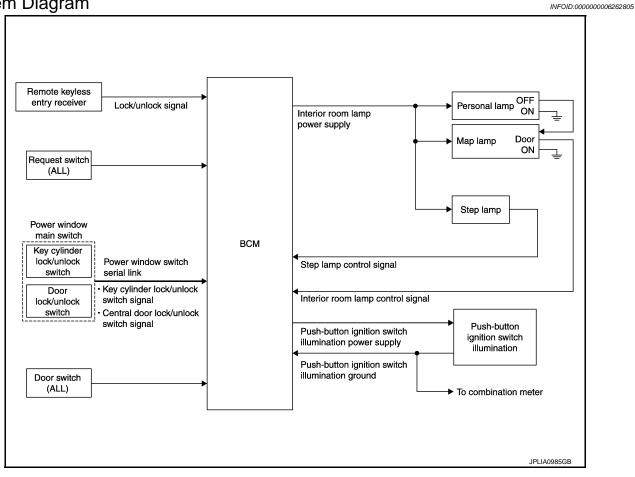
YES >> INSPECTION END

NO >> GO TO 3.

## SYSTEM DESCRIPTION

## INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



## System Description

INFOID:0000000006262806

#### OUTLINE

- Interior room lamps\* are controlled by interior room lamp timer control function of BCM. \*: Map lamp and personal lamp (when map lamp switch is in DOOR position).
- Step lamp is controlled by step lamp control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.

#### INTERIOR ROOM LAMP TIMER CONTROL

INL

K

Α

В

D

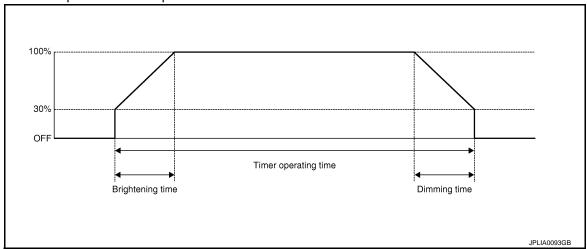
Е

M

Ν

#### < SYSTEM DESCRIPTION >

Interior Room Lamp Timer Basic Operation



- The interior room lamp turns ON and OFF (gradual brightening and dimming) by the interior room timer.
- BCM judges the vehicle condition with the following items. It activates the interior room timer.
- Ignition switch status
- Door switch signal (ALL)
- Door lock/unlock signal (Remote keyless entry receiver, each request switch, key cylinder lock/unlock switch, door lock/unlock switch)

#### NOTE:

Each function of interior room lamp timer can be set by CONSULT-III. Refer to <a href="INL-15">INL-15</a>, "INT LAMP: CONSULT-III. Refer to <a href="INL-15">INL-15</a>, "INT LAMP."</a>.

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens.
- BCM activates the interior room timer in any of the following conditions to turn the interior room lamp ON for a period of time.
- Any door opens before all doors close.
- Ignition switch is turned ON → OFF.
- Any door unlock signal is detected when all doors close with ignition switch OFF.

#### NOTE:

Restart the timer if new condition is input during the timer operating time.

Interior Room Lamp OFF Operation

BCM stops the timer in any of the following conditions to turns the interior room lamp OFF.

- The timer operating time is expired.
- Ignition switch position is other than OFF with all doors close.
- Any door lock operation is detected with all doors close.

#### STEP LAMP CONTROL

BCM controls the step lamp (ground-side) to turn ON with any door switch ON.

#### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

- BCM provides the power supply and the ground to turn the push-button ignition switch illumination ON.
- BCM cuts the ground supply while the each illumination (tail lamp) ON. BCM switches to the ground control with the meter illumination control function.

Push-button Ignition Switch Illumination ON Operation

BCM turns the push-button ignition switch illumination ON in the following conditions.

- Ignition switch ON
- · Each illumination (tail lamp) ON
- · Any of the following conditions with ignition switch OFF
- Engine start permission is entered.
- Intelligent Key inserted into the key slot.
- Driver door is LOCK → UNLOCK.
- Driver door is open.

Push-button Ignition Switch Illumination OFF Operation

#### < SYSTEM DESCRIPTION >

BCM turns the push-button ignition switch illumination OFF in any of the following conditions.

- The push-button ignition switch illumination ON conditions do not satisfy.
- · All of the following conditions with ignition switch OFF
- Each illumination (tail lamp) OFF
- The push-button ignition switch illumination ON conditions do not change (15 seconds after the ignition switch OFF) or the driver door is UNLOCK  $\rightarrow$  LOCK.

## Component Parts Location

INFOID:0000000006262807

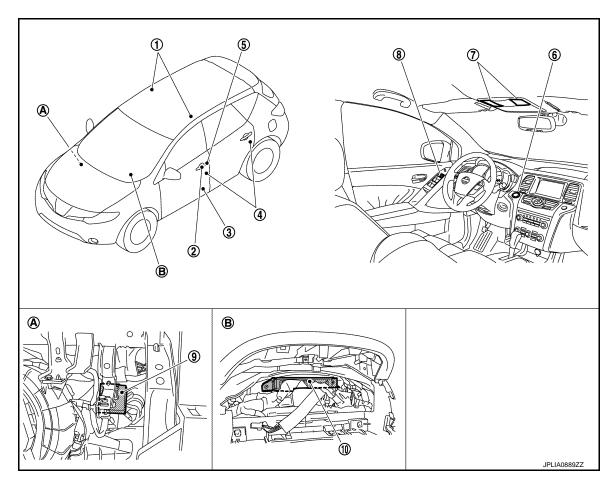
Α

В

D

Е

Н



- Personal lamp
- Door switch
- Map lamp 7.
- 10. BCM
- Over the glove box
- 2. Request switch
- Key cylinder switch 5.
- 8. Door lock switch
- Step lamp
- Push-button ignition switch illumination
- Remote keyless entry receiver

Behind the combination meter

# Component Description

INFOID:0000000006262808

Part	Description
ВСМ	<ul> <li>Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamp ON/OFF.</li> <li>Turns the step lamp ON /OFF according to any door switch status.</li> </ul>
Remote keyless entry receiver	Receives the lock/unlock signal from keyfob.     Transmits the lock/unlock signal to BCM.
Request switch     Key cylinder lock/unlock switch     Door lock/unlock switch	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM.

INL-7 Revision: 2011 November **2011 MURANO** 

INL

K

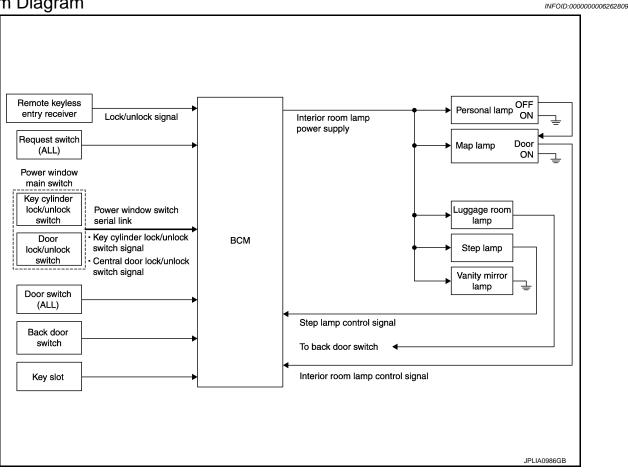
M

Ν

Ρ

## INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram



## System Description

INFOID:0000000006262810

#### OUTLINE

- Interior room lamp battery saver is controlled by BCM.
- BCM turns applicable lamps OFF depending on the vehicle condition. This function prevents the battery from over-discharging if the driver neglect turning OFF the any lamps.

#### Applicable lamps

- Map lamp
- Personal lamp
- Step lamp
- Luggage room lamp
- Vanity mirror lamp

#### INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

- When the ignition switch is turned OFF, BCM operates the timer for a period of time to cut the interior room lamp power supply.
- BCM restart the timer when any of the following signals changes while operating the timer.
- Ignition switch status
- Door switch signal (ALL)
- Door lock/unlock signal (Remote keyless entry receiver, each request switch, key cylinder lock/unlock switch, door lock/unlock switch)
- Back door switch signal
- Key switch signal (Key slot)
- BCM provides the interior room lamp power supply continuously when the ignition switch position is other than OFF.

#### NOTE:

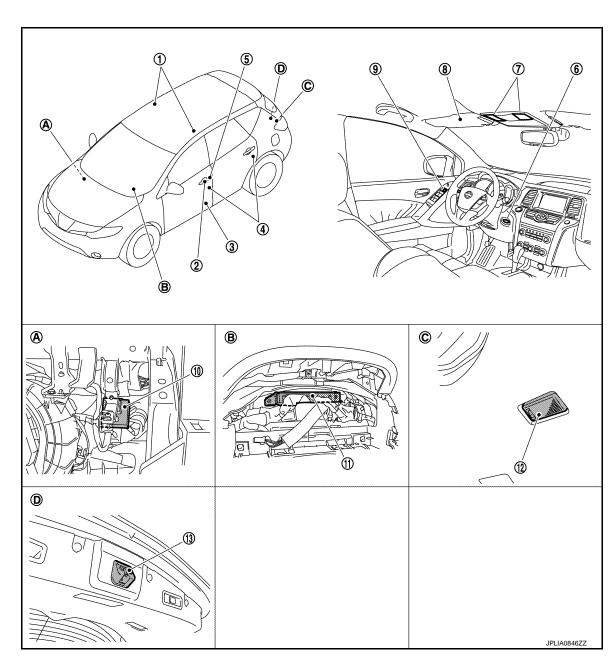
#### INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

#### < SYSTEM DESCRIPTION >

Each function of interior room lamp battery saver can be set by CONSULT-III. Refer to <a href="INL-16">INL-16</a>, "BATTERY SAVER: CONSULT-III Function (BCM - BATTERY SAVER)".

## **Component Parts Location**

INFOID:0000000006262811



- 1. Personal lamp
- 4. Door switch
- 7. Map lamp
- 10. Remote keyless entry receiver
- 13. Back door switch
- A. Over the glove box
- D. Back door lock assembly

- 2. Request switch
- Key cylinder switch
- 8. Vanity mirror lamp
- 11. BCM
- B. Behind the combination meter
- 3. Step lamp
- 6. Key slot
- 9. Door lock switch
- 12. Luggage room lamp
- C. Back door

В

Α

Е

D

F

G

Н

1

K

INL

M

Ν

0

## **INTERIOR ROOM LAMP BATTERY SAVER SYSTEM**

## < SYSTEM DESCRIPTION >

# Component Description

INFOID:0000000006262812

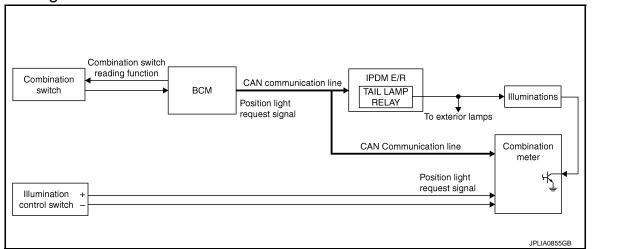
Part	Description		
BCM	Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply.		
Remote keyless entry receiver	Receives the lock/unlock signal from keyfob.     Transmits the lock/unlock signal to BCM.		
<ul><li>Request switch</li><li>Key cylinder lock/unlock switch</li><li>Door lock/unlock switch</li></ul>	Inputs the lock/unlock signal to BCM.		
Door switch     Back door switch	Inputs a switch signal to BCM.		
Key slot	Inputs the Intelligent Key in status to BCM.		

#### **ILLUMINATION CONTROL SYSTEM**

#### < SYSTEM DESCRIPTION >

## ILLUMINATION CONTROL SYSTEM

## System Diagram



## System Description

INFOID:0000000006262814

INFOID:0000000006262813

#### **OUTLINE**

Each illumination lamp is controlled by each function of BCM, IPDM E/R and combination meter.

Control by BCM

- Combination switch reading function
- · Headlamp control function

Control by IPDM E/R

Relay control function

Control by combination meter

Meter illumination control function (Refer to <u>MWI-24, "METER ILLUMINATION CONTROL: System Description".</u>)

#### ILLUMINATION CONTROL

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter according to tail lamp ON condition.

Tail lamp ON condition

- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment (With auto light system)
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter enters in the nighttime mode according to position light request signal. Under the nighttime mode the combination meter controls the illuminance by controlling the each illumination lamp (ground side).

INL

K

Α

В

D

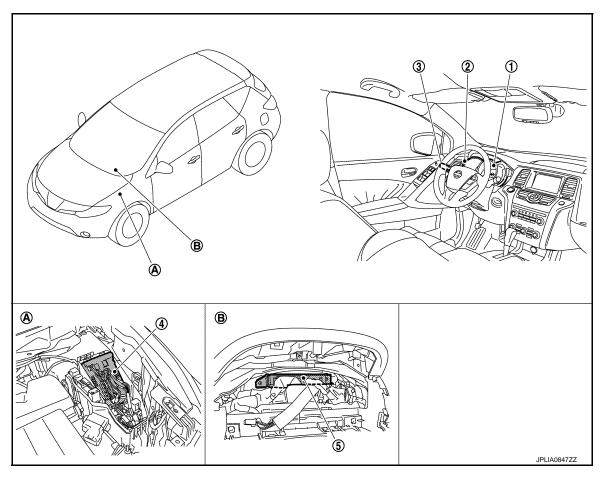
Н

M

Ν

## **Component Parts Location**

INFOID:0000000006262815



- 1. Combination meter
- 4. IPDM E/R
- A Engine room (LH)
- 2. Illumination control switch
- 5. BCM
- B. Behind the combination meter

3. Combination switch

## **Component Description**

INFOID:0000000006262816

Part	Description
BCM	<ul> <li>Detects each switch condition by the combination switch reading function.</li> <li>Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter (with CAN communication).</li> </ul>
IPDM E/R	Controls the integrated relay according to the request from BCM (with CAN communication).
Combination meter	Enters in nighttime mode according to the request from BCM (with CAN communication).     Controls the each illumination in the nighttime mode.     Refer to MWI-24, "METER ILLUMINATION CONTROL: System Description".
Combination switch (Lighting & turn signal switch)	Refer to BCS-10, "System Description".

#### < SYSTEM DESCRIPTION >

# DIAGNOSIS SYSTEM (BCM)

**COMMON ITEM** 

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

INFOID:0000000006262817

Α

В

D

Е

F

Н

#### 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 Diagnostic Result	Displays the diagnosis results judged by BCM.		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.		
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>Read and save the vehicle specification.</li> <li>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.

×: Applicable item

Curatava	Cub quaters calcution items	Diagnosis mode		
System	Sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×* <sup>1</sup>	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
_	AIR CONDITONER*2			
Intelligent Key system     Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM ×			
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER × ×		×	×
Back door opener system	TRUNK ×		×	
Vehicle security system	THEFT ALM × ×		×	
RAP system	RETAINED PWR ×			
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR) × ×			×

#### NOTE:

- \*1: For models with rain sensor this mode is displayed, but is not used.
- \*2: This item is displayed, but is not used.

#### FREEZE FRAME DATA (FFD)

Revision: 2011 November INL-13 2011 MURANO

INL

K

 $\mathbb{N}$ 

Ν

0

## < SYSTEM DESCRIPTION >

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT-III.

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"	
Vehicle Condition	OFF>ACC	Power position status of the moment a particular	While turning power supply position from "OFF" to "ACC"	
Tomore Community	ON>CRANK	DTC is detected	While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode	
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	<ul> <li>The number of times that ignition switch is turned ON after DTC is detected</li> <li>The number is 0 when a malfunction is detected now.</li> <li>The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>		

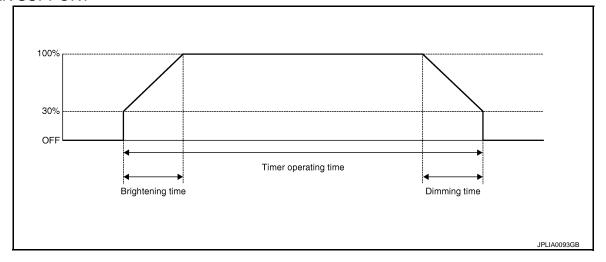
**INT LAMP** 

## < SYSTEM DESCRIPTION >

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

INFOID:0000000006262818

## **WORK SUPPORT**



Service item	Setting item	Setting		
SET I/L D-UNLCK INTCON	ON*	With the interior room lamp timer function		
SET I/L D-UNLCK INTCON	OFF	Without the interior room lamp timer function		
ROOM LAMP TIMER SET	MODE 2	7.5 sec.		
	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)	
	MODE 4	30 sec.		
	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.		
	MODE 1*	Interior room lamp timer activates with synchronizing all doors.		
R LAMP TIMER LOGIC SET MODE 2		Interior ro	om lamp timer activates with synchronizing the driver door	

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

#### **DATA MONITOR**

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from front request switch (passenger side)
PUSH SW [On/Off]	The switch status input from push-button ignition switch
KEY SW-SLOT [On/Off]	Key switch status input from key slot

Revision: 2011 November INL-15 2011 MURANO

В

Α

С

D

Е

F

G

Н

l

Κ

INL

M

Ν

0

#### < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
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
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from door lock/unlock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from door lock/unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch by power window switch serial link
BACK DOOR SW [On/Off]	The switch status input from back door switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

#### **ACTIVE TEST**

Test item	Operation	Description		
INT LAMP		Outputs the interior room lamp control signal to turn map lamp and personal lamp ON (Map lamp switch is in DOOR position).		
	Off	Stops the interior room lamp control signal to turn map lamp and personal lamp OFF.		
STEP LAMP TEST	On	Outputs the step lamp control signal to turn step lamp ON.		
OTET LAWI TEOT	Off	Stops the step lamp control signal to turn step lamp OFF.		
LUGGAGE LAMP TEST	On	NOTE:		
LOGGAGE LAWIF 1E31	Off	The item is displayed, but cannot be tested.		

## **BATTERY SAVER**

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

INFOID:0000000006262819

## **WORK SUPPORT**

Service item	Setting item	Setting			
BATTERY SAVER SET	On*	With the e	With the exterior lamp battery saver function		
DATTERT SAVER SET	Off	Without th	Without the exterior lamp battery saver function		
ROOM LAMP BAT SAV SET	On*	With the interior room lamp battery saver function			
ROOM LAWF BAT SAV SET	Off	Without the interior room lamp battery saver function			
	MODE 1	30 min.			
ROOM LAMP TIMER SET	MODE 2	60 min.	Sets the interior room lamp battery saver timer operating time.		
	MODE 3*	15 min.			

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

## < SYSTEM DESCRIPTION >

## DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from front request switch (passenger side)
REQ SW-RR [On/Off]	NOTE:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
PUSH SW [On/Off]	The switch status input from push-button ignition switch
KEY SW-SLOT [On/Off]	Key switch status input from key slot
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
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
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from door lock/unlock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from door lock/unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch by power window switch serial link
BACK DOOR SW [On/Off]	The switch status input from back door switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

#### **ACTIVE TEST**

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

<sup>\*:</sup> Each lamp switch is in ON position.

Revision: 2011 November INL-17 2011 MURANO

Α

В

С

D

Е

F

G

Н

J

K

INL

M

Ν

0

#### **POWER SUPPLY AND GROUND CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT

**BCM** 

BCM : Diagnosis Procedure

INFOID:0000000006262820

#### 1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.	
Rattery power supply	L	
Battery power supply	10	

#### Is the fuse fusing?

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

NO >> GO TO 2.

## 2.CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connectors.
- 3. Check voltage between BCM harness connector and ground.

(	Voltage (Approx.)		
В	СМ		(Approx.)
Connector	Terminal	Ground	
M118	1	Glound	Battery voltage
M119	11	Dattery Voltage	

#### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

## 3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M119	13		Existed	

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

#### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description INFOID:0000000006262821

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

## Component Function Check

## 1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

#### (P)CONSULT-III ACTIVE TEST

- 1. Turn the ignition switch ON.
- 2. Turn each interior room lamp ON.
- Map lamp
- Personal lamp
- Step lamp
- Vanity mirror lamp
- Luggage room lamp
- 3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- With operating the test items, check that each interior room lamp turns ON/OFF.

Off : Interior room lamp OFF
On : Interior room lamp ON

#### Does the interior room lamp turn ON/OFF?

YES >> Interior room lamp power supply circuit is normal.

NO >> Refer to <u>INL-19</u>. "Diagnosis Procedure".

## Diagnosis Procedure

# 1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

#### PCONSULT-III ACTIVE TEST

- Turn the ignition switch ON.
- 2. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 3. With operating the test item, check voltage between BCM harness connector and the ground.

	Terminals	Test item			
(	+)	(-)	163t Item	Voltage (Ap-	
BCM			BATTERY	prox.)	
Connector	Terminal		SAVER		
		Ground	Off	0 V	
M119 4			On	Battery volt- age	

#### Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace BCM.

## 2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect the following connectors.
- Map lamp
- Personal lamp
- Vanity mirror lamp (driver side)
- Vanity mirror lamp (passenger side)
- Luggage room lamp (RH)
- Luggage room lamp (LH)
- Step lamp (driver side)

INL

K

Α

В

D

Е

F

Н

INFOID:0000000006262822

INFOID:0000000006262823

M

N

#### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

- Step lamp (passenger side)
- 3. Check continuity between BCM harness connector and each interior room lamp harness connector.

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector	,	Terminal	Continuity
		Map lamp	R19	1	
		Personal lamp	R21	1	
		Vanity mirror lamp (driver side)	R24	2	
		Vanity mirror lamp (passenger side)	R10	2	
M119	4	Luggage room lamp (RH)	D156	2	Existed
		Luggage room lamp (LH)	D157	2	
		Step lamp (driver side)	D17	1	
		Step lamp (passenger side)	D51	1	

## Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

# 3.CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and the ground.

В	CM		Continuity	
Connector Terminal		Ground	Continuity	
M119	4		Not existed	

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

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

#### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## INTERIOR ROOM LAMP CONTROL CIRCUIT

Description INFOID:0000000006262824

Controls each interior room lamp (ground side) by PWM signal.

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

### Component Function Check

# INFOID:0000000006262825

#### **CAUTION:**

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

- Interior room lamp power supply
- Map lamp bulb
- Personal lamp bulb

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

#### (P)CONSULT-III ACTIVE TEST

- Switch the map lamp switch to DOOR.
- Turn the ignition switch ON.
- Select "INT LAMP" of BCM (INT LAMP) active test item.
- With operating the test items, check that each interior room lamp turns ON/OFF (gradual brightening/dimming).

On : Interior room lamp gradual brightening

: Interior room lamp gradual dimming Off

#### Does the interior room lamp turns ON/OFF (gradual brightening/dimming)?

YES >> Interior room lamp control circuit is normal.

>> Refer to INL-21, "Diagnosis Procedure".

## Diagnosis Procedure

# 1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### (P)CONSULT-III ACTIVE TEST

- Turn ignition switch OFF.
- Remove all the bulbs of map lamp and personal lamp.
- Select "INT LAMP" of BCM (INT LAMP) active test item.
- With operating the test item, check continuity between BCM harness connector and ground.

BCM			Test item	Continuity	
Connector	Terminal	Ground	INT LAMP	Continuity	
M119 19	10	Ground	On	Existed	
		Off	Not existed		

#### Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM.

# 2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM connector, map lamp connector and personal lamp connector. 2.
- Check continuity between BCM harness connector, map lamp harness connector and personal lamp harness connector.

INFOID:0000000006262826

INL

K

Α

В

D

Е

F

Н

N

#### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

BCM		Map lam			
Connec- tor	Terminal	Connec	tor	Terminal	Continuity
M110	10	Map lamp	R19	2	Existed
M119 19		Personal lamp	R21	3	LAISIEU

#### Does continuity exist?

YES >> Replace the map lamp or the personal lamp.

NO >> Repair the harnesses or connectors.

# 3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM connector, map lamp connector and personal lamp connector.
- 3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M119	19		Not existed

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

#### STEP LAMP CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## STEP LAMP CIRCUIT

Description INFOID:0000000006262827

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

Component Function Check

#### **CAUTION:**

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

- Interior room lamp power supply
- Step lamp bulb

# 1. CHECK STEP LAMP OPERATION

#### PCONSULT-III ACTIVE TEST

- 1. Turn the ignition switch ON.
- Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- With operating the test items, check that step lamp turns ON/OFF.

On : Step lamp ON Off : Step lamp OFF

#### Does the step lamp turn ON/OFF?

YES >> Step lamp circuit is normal.

>> Refer to INL-23, "Diagnosis Procedure". NO

## Diagnosis Procedure

## CHECK STEP LAMP OUTPUT

## (P)CONSULT-III ACTIVE TEST

- Turn the ignition switch OFF.
- Remove the step lamp bulbs (driver side and passenger side).
- Turn the ignition switch ON. 3.
- Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- With operating the test item, check continuity between BCM harness connector and the ground.

В	CM		Test item	
Connector	Terminal	Ground	STEP LAMP TEST	Continuity
M119	7		On	Existed
	,		Off	Not existed

#### Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM.

## 2.CHECK STEP LAMP OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector, and step lamp connector.
- Check continuity between BCM harness connector and step lamp harness connector.

BC	M		Step lamp		Continuity
Connector	Terminal	Conr	nector	Terminal	Continuity
M119	7	Driver side	D17	2	Existed
WITI9	,	Passen- ger side	D51	2	LXISIEU

**INL-23** Revision: 2011 November **2011 MURANO** 

INL

K

Α

В

D

Е

Н

INFOID:0000000006262828

INFOID:0000000006262829

Ν

## STEP LAMP CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## Does continuity exist?

YES >> Replace step lamp.

NO >> Repair harnesses or connectors.

# 3.CHECK STEP LAMP SHORT CIRCUIT

1. Turn the ignition switch OFF.

2. Check continuity between BCM harness connector and the ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M119	7		Not existed

## Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

#### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description INFOID:0000000006262830

Provides the power supply and the ground to control the push-button ignition switch illumination.

## Component Function Check

# ${f 1}$ .CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

## (P)CONSULT-III ACTIVE TEST

- Turn the ignition switch ON.
- Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
- With operating the test items, check that the push-button ignition switch illumination turns ON/OFF

On : Push-button ignition switch illumination ON

Off : Push-button ignition switch illumination OFF

#### Does the push-button ignition switch illumination turn ON/OFF?

YES >> Push-button ignition switch illumination circuit is normal.

NO >> Refer to INL-25, "Diagnosis Procedure".

## Diagnosis Procedure

# ${f 1}$ .CHECK ILLUMINATION CONTROL SWITCHING OPERATION

- Turn the ignition switch ON.
- With operating the lighting switch, check that the push-button ignition switch illumination turns ON/OFF 2.

Condition	Push-button ignition switch illumination
<ul><li>Ignition switch ON</li><li>Lighting switch 1ST</li></ul>	ON
Ignition switch OFF     Lighting switch OFF     Driver door LOCK	OFF

## Does the push-button ignition switch illumination turn ON/OFF?

YES >> GO TO 2. NO >> GO TO 3.

# 2.check push-button ignition switch illumination ground circuit

- Turn the ignition switch OFF.
- 2. Disconnect BCM connector and the push-button ignition switch connector.
- Check continuity between BCM harness connector and the push-button ignition switch harness connector.

В	CM	Push-button	ignition switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M119	14	M101	2	Existed

#### Does the continuity exist?

YES >> Replace BCM.

NO >> Repair the harness or the connector.

# 3.check push-button ignition switch illumination power supply output

#### (P)CONSULT-III ACTIVE TEST

- Turn the ignition switch ON.
- Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item. 2.
- With operating the test item, check voltage between BCM harness connector and the ground.

K

Α

В

D

F

Н

INFOID:0000000006262831

INFOID:0000000006262832

M

N

INL

#### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

	Terminals		Test item	
(	+)	(-)	iesi ileiii	Voltage (Ap-
В	CM		ENGINE SW	prox.)
Connector	Terminal	Ground	ILLUMI	
M123	133	Oround	ON	5 V
IVI 123	133		OFF	0 V

#### Is the measurement value normal?

YES >> GO TO 4. NO >> GO TO 5.

## f 4.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector and the push-button ignition switch connector.
- 3. Check continuity between BCM harness connector and the push-button ignition switch harness connector.

В	CM	Push-button	ignition switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	133	M101	3	Existed

#### Does the continuity exist?

YES >> Replace push-button ignition switch.

NO >> Repair the harness or the connector.

# 5.check push-button ignition switch illumination power supply short circuit

- Turn the ignition switch OFF.
- 2. Disconnect BCM connector and the push-button ignition switch connector.
- 3. Check continuity between BCM harness connector and the ground.

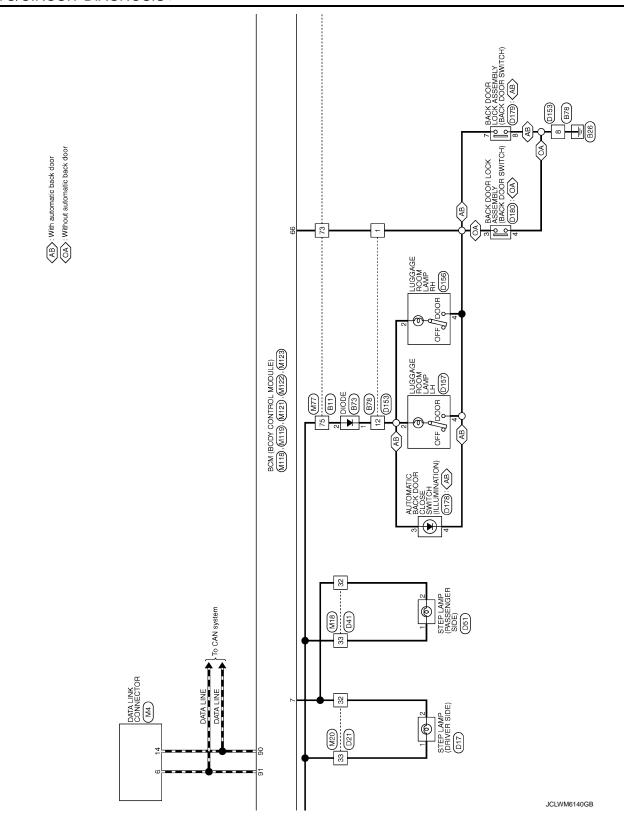
В	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	133		Not existed

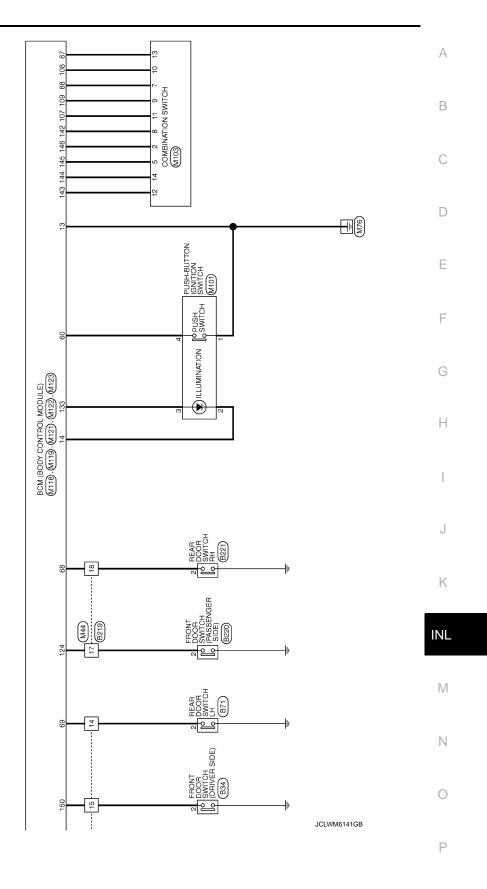
#### Does the continuity exist?

YES >> Repair the harness or the connector.

NO >> Replace BCM.

## INTERIOR ROOM LAMP CONTROL SYSTEM Α Wiring Diagram - INTERIOR ROOM LAMP -INFOID:0000000006262833 В M18 C DOOR LOCK AND UNLOCK SWITCH M35 D - TI-(9) Е D21 M20 DOOR LOCK AND UNLOCK SWITCH VANITY MIRROR LAMP (DRIVER SIDE) F - III PERSONAL LAMP (R21) Н UNLOCK BETWEEN FULL STROKE AND N FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) (DOOR KEY CYLINDER SWITCH) BCM (BODY CONTROL MODULE) (M113), (M123), (M123) 퓬 NO O J LOCK @ No MAP LAMP (R19) K FUSE BLOCK (J/B) (M1) INL N 0 KEY SLOT 10A M Ö INTERIOR ROOM LAMP MZ3 E 10**A** Ν 0 82 M11 M11 2010/09/06 BATTERY Р JCLWM6139GB





Connector No.  Connector Name  Connector Name	, Name of the state of the stat	tor No. 1634 Connector No. 1678  Connector No. 1678  Connector No. 1678	FROM DOOR SWILCH (DRIVER SIDE) Connector Type Angew			18.		2   2   3   4   15   16   17   17   17   17   17   17   17	3		Color Signal Name [Specification]	No. of Wire	> 6	- 8S	B71 5	V 8		A03FW 9	1	+	15   <b>K</b>	-13	14	15	- 16 BR -	Ŀ			á		tor No. B73	or Name DIODE		Connector I ype 24335 C9902					112			Color		_	of Wire
_	ŀ	S	H	╁	52 B	+	╀	Н	57 L	П	T	+	+	╁	┝	H	Λ 99	Н	┪	7	┪	$\dashv$	$\dashv$	$\dashv$	4	+	+	╁	╁	Н	Н	_	+	+	+	╀	╀	╀	╀	╀	┝	H	l	Н	+
	INTERIOR ROOM LAMP	Connector No. BIII		1		3 K					Terminal Color Signal Name [Specification]	of Wire			R/W -				SHIELD		5//k		W/L -			SB	BR				TG				->					SBS	Q				57 >

JCLWM6142GB

## < DTC/CIRCUIT DIAGNOSIS >

Standard   Control   Con	[tool]	А
Concrete Wave   Record   Concrete Wave   Concre	Specifica	В
Consider Na   Big		С
Connector No.   Connector No		D
Commetcer Name   REAR DOORS SWITCH RIH   Commetcer Name   REAR DOORS SWITCH RIH   Commetcer Name   Commetc	Meation]	Е
Commetcer Name   REAR DOORS SWITCH RIH   Commetcer Name   REAR DOORS SWITCH RIH   Commetcer Name   Commetc	Signal Name (Spee	F
Commetter No.   8221   Commetter No.   8221   Commetter No.		G
Connector No.   B221   Connector Name   REAR DC   Connector Name   REAR DC   Connector Type   A03FW   Connector Type   NS16FW   Connector Name   POWER   N	Connecto F	Н
Connector No.   B221   Connector Name   REAR DC   Connector Name   REAR DC   Connector Type   A03FW   Connector Type   NS16FW   Connector Name   POWER   N	SwrTCH  SwrTCH  Specification]  Specification]	I
Connector No.   Connector No.   Connector No.   Connector No.   Connector Type   Connector Type   Connector No.   Connector	1   1   1   1   1   1   1   1   1   1	J
7 12 13 14 15 16 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 22 7 58 [29] 50 [31] 50 [		К
7 (28 [29] 30] 41 [5] 16   15   16   16   16   16   16   16		INL
No	Peofication]	
Note	Signal   S	N
NTERIOR ROOM LAMP    Connector Name   Signal Name   Sign	INTERIOR   Connector Name   Connector	0
JCLWM6143GB		P

Revision: 2011 November INL-31 2011 MURANO

INTEF	NOF.	INTERIOR ROOM LAMP						
Connector No.	. No.	D21	53	H	- [With automatic drive positioner]	Connector No.	D45	Connector No. D153
Connector Name		WIRE TO WIRE	54	<u>م</u> 8	- [Without automatic drive positioner] - [With automatic drive positioner]	Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)	Connector Name WIRE TO WIRE
Connector	Type	Connector Type TH40FW-CS15	54	+	- [Without automatic drive positioner]	Connector Type	NS16FW-CS	Connector Type NS16FW-CS
<b>4</b>			55	H	- [With automatic drive positioner]	<b>£</b>		
			Í	1	Iminione automatic unive positionier	N.H.		
	15 14 1	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	Jones	Connector No. D41	5		234 0 56	7654 03
_	555453	55 54 58 52 51 50 48 48 47	Solution	_ e	WIRE TO WIRE	<u> </u>	8 9 10 11 12 13 14 15 16	16 15 14 13 12 11 10 9 8
			Conne		TH40FW-CS15			
-e	Color	Signal Name [Specification]	þ	1		-la	Signal Name [Specification]	-ga
o.	ot Wire		季		-	<u></u>		. e
- 2	> 0		7	15 14 13	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	o 4		2 W
3	۵	1		4645444342	8	H	-	^
4	В	1		55 54 53 52	355433323130292827	9 FG	-	5 R
2	М	1			-	10 P	1	$\dashv$
9	gg	1		ŀ		$\dashv$	1	I BB 80
7	۵	I	Terminal	_	Signal Name [Specification]	$\dashv$	1	L
8	æ	1	No	ot Wire		+	1	
6	g;	1	- 0	+	1	0 91	-	0 ;
2 ;	> 0		7	> 0	i			12 VP
- 41	0 00		t ic	+		Connector No.	D51	5 0
15	2	ı	9	╁	1			15
91	G	1	_	$\vdash$	1	Connector Name	STEP LAMP (PASSENGER SIDE)	F
17	>	1	8	В	1	Connector Type	C02FW	
18	GR	1	16	Н	1	4		
19	BR	1	17	<b>\</b>	1	厚		Connector No. D156
50	PC	T	18	+	1	S		Connector Name LUGGAGE ROOM LAMP RH
24	2 >	1 1	6 00	X C	11 1		<u></u>	Connector Time C 104EW
96	> 3		24	╀	1		2 1	7
59	>	1	25	╁	1			
30	SB	-	26	H				
31	BR	1	29		-	lal	Simal Name [Specification]	(C) 1
32	۳	ī	30	$\dashv$	1	No. of Wire		7 - 0
33	g	1	31	1	1	-	1	3 4
8 35 5	> -	i	32	+	1	2 R	-	
8 14	1 0		3 8	, >	1 1			Terminal Color
45	E	1	35	╀	1			_
43	_	1						t
44	Α	ı						4 LG -
45	SB	ı						
46	œ	ı						
20	>	1						
51	0 1	1 3						
25	- ا	- [With automatic drive positioner]						
70	_	<ul> <li>[Without automatic drive positioner]</li> </ul>						

JCLWM6144GB

## < DTC/CIRCUIT DIAGNOSIS >

	А
Connector No.   MI	B C D
	Е
With navig	F
N N N N N N N N N N N N N N N N N N N	G
20 22 24 25 26 26 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Н
Signal Name [Specification]	I
BACK DOOR LOCK ASSEMBLY NSWAFW-CS  Signal Name [Specifica	J
1   R	К
	INL
Signal Name [Specification]	М
1167   1167	N
INTERIOR ROOM LAMP   Connector Name   LUGGAGE ROOM LAMP   Connector Name   LUGGAGE ROOM LAMP   Connector Name   Color   Name   Signal Name	0
JCLWM6145GB	Р
	P

**INL-33** Revision: 2011 November 2011 MURANO

INTERIOR ROOM LAMP								
Connector No. M11	72 B	BR -	35	۳	1	46 P	-	_
Connector Name WIRE TO WIRE	+					+	1	_
Т	74 V		, and	No separation No	001	21	1	_
٦.	+		00	TOL ING.	MIZU	+	Lwith automatic onive positioner	_
	0/	× 0	Connec	Connector Name	WIRE TO WIRE	26 53	+	_
	╀	1	Connec	Connector Type	TH40MW-0S15	53	ľ	_
100 mm	╀					54 LG	ŀ	_
	┞					┝	Ľ	_
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	L	M	ŧ	Ľ		Ë	L	_
2 2	Н		2		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Н	_	_
H	83	- 0		16171819	16 17 18 19 20 21 22 22 24 25 26   36 37 38 38 40 41 42 43 44 43 46   37 38 39 40 41 42 43 44 43 46   37 38 39 40 41 42 43 48 43 46   37 38 39 40 40 41 42 43 48 48 48 48 48 48 48 48 48 48 48 48 48			
Terminal Color Signal Name [Specification]						Connector No	Mos	_
t	Connector No.	M18				-	П	_
	Gonnector Name	WIRE TO WIRE	Terminal		Signal Name [Specification]	COIIIIGCO MAIIII	П	_
+			Š	of Wire	0	Connector Type	TH16MW-NH	_
- 2	Connector Type	e TH40MW-CS15	-	>	t	ą		
П Р	ą		2	g	1	厚		
12 L –	夏		9	Χ	ı	Ĭ		
13 V –			4	œ	<ul> <li>[With iPod without BOSE system]</li> </ul>			
14 Y –	_		4	В	- [With BOSE system and base audio without iPod]		1 2 3 4 5 6 7 8	
15 R -	9	1617 18 1920 21 22 23 24 25 26 36 37 38 39 40 41 42 43 44 45 46	2	G	<ul> <li>[With iPod without BOSE system]</li> </ul>		9 10 11 12 13 14 15 16	
20 Y -	<u> </u>		9	٦	- [With BOSE system and base audio without iPod]			
21 BR -	J		9	^	1			
H			7	BR	1	Terminal Color		_
24 Y -	Terminal Co	Color	8	0	1	No. of Wire	ire oignai ivanie Lopeciiicauori	
25 L –		of Wire	6	SB	1	Λ ,		
28 BR –	1	- 5	10	٦	1	2 SHIELD	LD - [With navigation system]	_
H	2 \	-	Ξ	5	1	2 R		_
30 R	4	- [With iPod without BOSE system]	14	В	1	3 B		
	۸ ۲	W - [With BOSE system and base audio without iPod]	15	GR	i	4 SHIELD	- rp	
48 L –	3 9	B - [With BOSE system]	16	٦	1	6 R		
Н	۸ 5	-	17	Υ	-	٧ /	-	_
H	5 B	BR – [Without iPod and BOSE system]	18	W	_	8	-	
PI TG	9 9	GR -	19	Υ	1	9 B	_	_
$\dashv$	$\dashv$	5	20	SB	I	7 ∨	ı	,
+	4	B -	24	Р	1	11 P	_	_
4	$\dashv$	M	52	>	I	+	I	
$\dashv$	( )	-	26	>	1	4	1	_
	+	M	29	ч	1	15 G	1	_
- A 09	19 F	R -	30	٦	_	16 R	_	_
_	20 S	SB -	31	SB	-			
	Н	DT	32	W	_			
63 V			33	Д	-			
64 SHIELD –	H		34	BR	-			
- M 99	H	- 0	32	۳	1			
67 R –	30		41	FG	1			
- M 89	31	- ^	45	FC	1			
- d 69	H	λ	43	0				
- 02	33 F		44	Υ	-			
Н	Н	α	42	Ь	1			

JCLWM6146GB

## < DTC/CIRCUIT DIAGNOSIS >

	Signal Name [Specification]	CLOCK	DATA	ILL BAT	GND	WITCH SIGNAL			NITION SWITCH				8	8 0			Cinnal Nama Consideration	Filospouloadol alli	1		_	1	1	1 1																											В
	Signal Na					KEY S		M101	PUSH-BUTTON IGNITION SWITCH	TK08FBR		[		4 5			oly lower	ar in in																																	С
	No. of Wire	2 SB	Н	5 GR	Н	>		- 1	Connector Name	Connector Type	Œ	=	Ż				Terminal Color		- ·	3 8	4 BR	Н	+	d 8	+																										D
ſ															ositioner	Tiplionieod								Ī																											Е
	1 1 1		1	1 1	-	1 1	1	1	1 1	1		ı	-		- [With automatic drive positioner]	- automatical	-	1	1		-	1	ı	1 1	1	=	1	1	1			10	5	-NH			7	23456	) (	ρШ											F
-	* o >	- ^	>	E e	SHIELD		re Fe	> C	r a		# 9	2 ≥	LG		× 8	╀	. >	W	<u>~</u> 0	5 B	0	9	BR	a >	. 0	SB	7	5 5	<u></u>		o. M99	TO IS VEN	_	rpe TH12FW-NH		_	1	-	- 1	]											G
00	63	65	Н	69	П	07	Н	73	75	76	$^{+}$	╈	H	H	+	+	H	$\dashv$	87	88		91	+	+	t	96	Н	+	66		Connector No.	N notes on the	OOIIIIOO	Connector Type	Œ	事	HS.														Н
ſ	П	Π	П	Τ	Π	T	П	T	Τ	П	Τ	Τ		П	Τ	Τ	Γ		T	Τ			T	T	Τ	П			T	Τ	П			Τ	Τ	Τ	T	Τ	Τ	Π	7										П
																																																			I
		1		1 1	1	1 1	1	1		1		ı	1	1		1	-	1	1	1	-	I	1		1	=	1	1	1 1	1	1	1	1	1						1	1										J
	$\prod$			-							1				1								Q	1												_	-	_	_												
	ه ≥ ۵	+	Н	GHEID	П	e 0	Н	+	+	œ :	+	╁	H	Н	0 9	╀	+	4	œ >	+	BR	П	Т	Т	Т	П	П	П	SB C	Т	Н	^	Н	# c	+	+	Т	Т	Т	B B	7										K
Ľ	2 60	5	9	7 8	6	2 =	12	13	15	91	-   -	=======================================	20	21	22	3 8	25	27	28	31	32	34	8	8 12	9 4	41	42	46	47	49	20	51	52	53	ž,	55	ñ	e s	S 15	9	19										
						9 18 17			Ju Ju																															on]											NL
١						6 5 4 3 2 822 21 20 19 18			Signal Name [Specification]	ı			-	1	1 1		_	1			1	-	1	1 1									- 1	- TO	-18	_	_	)		Signal Name [Specification]	1										M
INTERIOR ROOM LAMP	VIRE	Ŧ			(	32 31 30 29 28 27 26 25 24 23 22			Signal Name																					VIRE	3819						6 C	þ		Signal Name											
R005	WIRE TO WIRE	TH32FW-NH				0 29 28 27																							M77	WIRE TO WIRE	TH80FW-CS19			8 2	X X	2 2	8 8	J													Ν
RIOR	Connector Name	Connector Type				32 31 3			of Wire	9	× 1	9	W	SHIELD	_  •	SHIFLD	>	PC	SHELD	ا ا	٦	۳	> 1	2 0	> >	>		:	tor No.	Connector Name	nector Type			00	1				Color	of Wire	SHIELD										
I N	Connec	Connec	1	事	N.			F	No.	-	2 6	4	5	9	- α	σ.	10	Ξ	12	5 5	91	17	82	30	8 8	32			Connector No.	Connec	Connec	9	修						Termina	No.	-										0
																																										•	JCL	.WM	1614	17G	В				Р
																																																			Р

Revision: 2011 November INL-35 2011 MURANO

INTERIOR ROOM LAMP								
Connector No. MI03	Connector No	M119	65	0	REAR WIPER STOP POSITION	Conne	Connector No.	M123
Connector Name COMBINATION SWITCH	Connector Name	me BCM (BODY CONTROL MODULE)	66	> =	BACK DOOR SW	Conne	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type TH16FW-NH	Connector Type	NS16FW-CS	68	2 ≥	REAR RH DOOR SW	Conne	Connector Type	TH40EG=NH
1		1	9	: 0	BEAD I H DOOR SW		   	
	修		3			Œ	•	
7	Ž					•	<u>ت</u>	
0 0	· ·	4 5 6 7 0 8 9 10	Connector No.		M122		3	7
7 8 0 10 11 12 13 14		11 12 13 14 15 16 17 18 19	Connect	Connector Name	BCM (BODY CONTROL MODULE)		151 150 12	2) 128 127 128 125 124 125 127 127 127 127 137 138 177 116 115 114 118 112 3) 148 147 148 145 144 143 142 141 140 138 138 137 138 135 134 135 135
01 21 11 01 0			Connector Type	П	TH40FB-NH			
ŀ	Ŀ		Q.				ŀ	
Terminal Color Signal Name [Specification]	Terminal C	Color Signal Name [Specification]	事			Terminal	nal Color	Signal Name [Specification]
t	t	P INTERIOR ROOM LAMP POWER SUPPLY	?			112	۲	RAIN SENSOR SERIAL LINK
JO .	╁	t		91 90 89 88	78 77 76 75 74	113	╀	OPTICAL SENSOR
3 O FR	7	H		111 110 109 106	107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92	116	Ľ	FUSE CHECK
4 W IGN	8	V ALL DOOR, FUEL LID LOCK OUTPUT				118	_	STOP LAMP SW
5 V OUTPUT 3	6	G DRIVER DOOR, FUEL LID UNLOCK OUTPUT				119	W	DR DOOR UNLOCK SENSOR
6 B GND	10	P REAR DOOR UNLOCK OUTPUT	Terminal	_	Signal Name [Specification]	121	>	KEY SLOT SW
7 GR INPUT 3	$\dashv$	LG BAT (FUSE)	ŏ.	of Wire		123	$\dashv$	IGN F/B
	$\dashv$		72	В	ROOM ANT 2-	124	$\dashv$	PASSENGER DOOR SW
SB	$\dashv$	O PUSH-BUTTON IGNITION SW ILL GND	73	≥	ROOM ANT 2+	130	7	REAR DEFOGGER SW
10 P INPUT 4	15	L ACC IND	74	>	PASSENGER DOOR ANT-	132	ڻ ت	POWER WINDOW SW COMM
0	┨		75	PC	PASSENGER DOOR ANT+	133	4	PUSH-BUTTON IGNITION SW ILL POWER
Α.	┨	BR TURN SIGNAL LH	92	>	DRIVER DOOR ANT-	134	4	LOCK IND
œ	19	Y ROOM LAMP TIMER CONTROL	77	<u>a</u>	DRIVER DOOR ANT+	137	<u>a</u>	RECEIVER / SENSOR GND
14 P 0UTPUT 2			80	SB	IMMOBI ANTENNA CONTROL	138	>	RECEIVER / SENSOR POWER SUPPLY
		ſ	81	0	IMMOBI ANTENNA SIGNAL	139	4	TIRE PRESS RECEIVER SIGNAL
I	Connector No.	M121	82	æ	IGN RELAY (F/B) CONT	140	æ	SHIFT N/P
Connector No. M118	Connector Name	me BCM (BODY CONTROL MODULE)	83	۵	KEYLESS ENTRY RECEIVER SIGNAL	141	0	SECURITY INDICATOR OUTPUT
Connector Name BCM (BODY CONTROL MODULE)		┑	87	œ	COMBI SW INPUT 5	142	+	COMBI SW OUTPUT 5
Т	Connector Type	be TH40FGY-NH	88	ä	COMBI SW INPUT 3	143	+	COMBI SW OUTPUT 1
Connector Type M03FB-LC	4		06	_	CAN-L	144	<u>a</u>	COMBI SW OUTPUT 2
d	手		16	-	CAN-H	145	>	COMBI SW OUTPUT 3
至力	<u>ا ا</u>		95	œ	KEY SLOT ILL	146	+	COMBI SW OUTPUT 4
		7	93	۵	ON IND	120	_	DRIVER DOOR SW
1 3	2 2	50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32	92	_	ACC RELAY CONT	151	G	REAR WINDOW DEFOGGER RELAY
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96	>	CVT SHIFT SELECTOR POWER SUPPLY			
7			66	>	SHIFT P			
	L		9 3	a ;	PASSENGER DOOR REQUEST SW			
ŀ	la	Color Signal Name [Specification]	101	*	DRIVER DOOR REQUEST SW			
le l	1	e.	105	> .	BLOWER FAN MOTOR RELAY CONT			
re	+		103	-	KEYLESS ENTRY RECEIVER POWER SUPPLY			
┥	+	W LUGGAGE ROOM ANT 1+	107	0	COMBI SW INPUT 1			
æ	+		108	۵	COMBI SW INPUT 4			
3 L POWER WINDOW POWER SUPPLY (RAP)	$\dashv$	BR REAR BUMPER ANT+	109	SB	COMBI SW INPUT 2			
	+	OI I	9	g	HAZARD SW			
	52	STAR						
	+	+						
	+	BACK						
	64	GR REQUEST SW BUZZER						

JCLWM6148GB

### **INTERIOR ROOM LAMP CONTROL SYSTEM**

Connector No. R24	Connector Name VANITY MIRROR LAMP (DRIVER SIDE) Connector Tros MCAROEM	STORY OF THE PROPERTY OF THE P		Terminal C No. of	1 B -	1							Ī							വി			
Connector No. R19	Connector Name MAP LAMP	1	654321	Terminal Golor Signal Name [Specification]	1 P/W	3 B	$\dashv$	5 R/Y	┨		Connector No. R21	Connector Name PERSONAL LAMP	Connector Type TH04FW-NH	4	·	<u>*</u>	1 3 2		Terminal Color		1 P/W		
INTERIOR ROOM LAMP	WIRE TO WIRE		8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9	Signal Name [Specification]	- [With navigation system] - [Without navigation system]	- [With navigation system]	<ul><li>- [Without navigation system]</li></ul>		-	1	1		1	-	1	1 1		R10	VANITY MIRROR LAMP (PASSENGER SIDE)	MCA02FW		Signal Name [Specification]	
ERIOR tor No.	Connector Name	1		ပ မွ	w W	SHIELD	R/L	В	R/L	Y/R	В/Υ	ω >	M/d	В	R/Y	B/R		Connector No.	Connector Name	Connector Type		al Color of Wire	
INTERIC Connector No.	Connec	匮		Terminal No.	- -	2	2	e .	e o	7	8	<del>ი</del> ⊊	=	12	13	15		Connec	Connec	Connec	展 H.S.	Terminal No.	

A
B
C
D

G

F

Н

Κ

INL

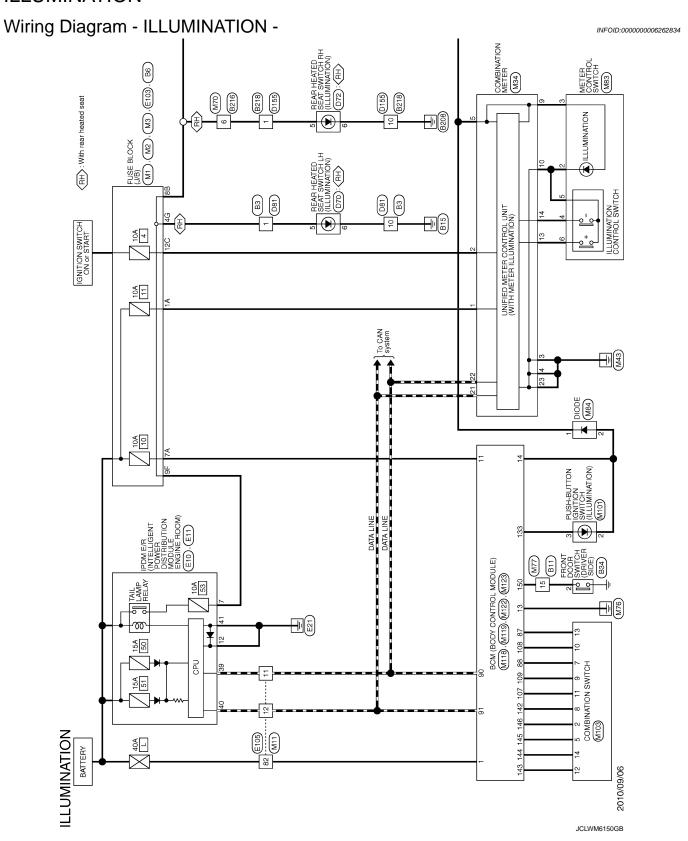
M

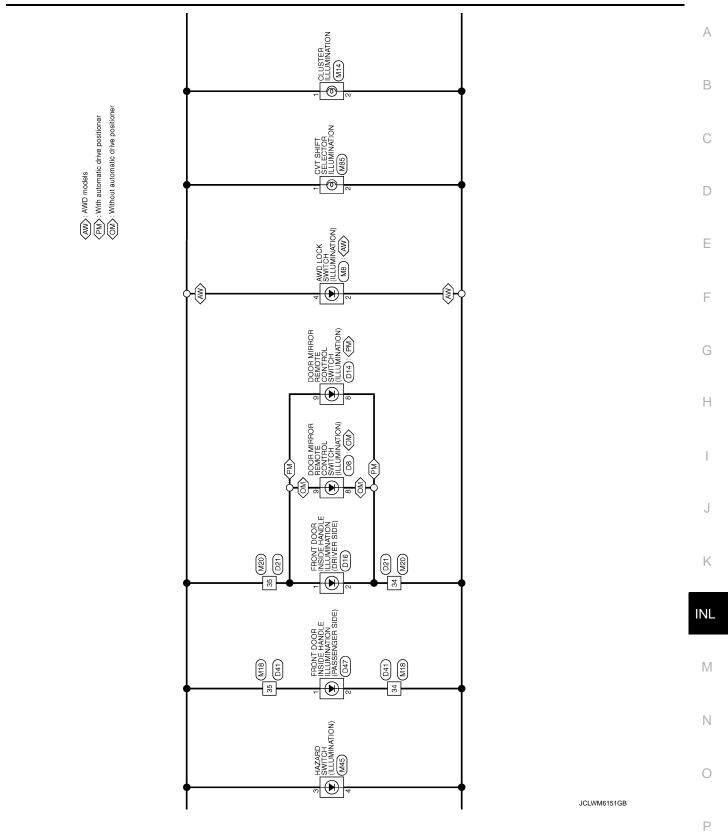
Ν

0

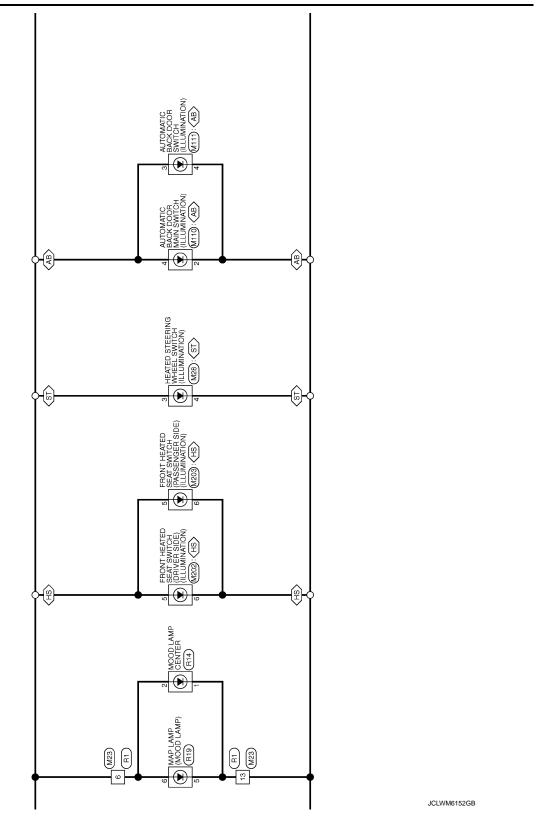
Р

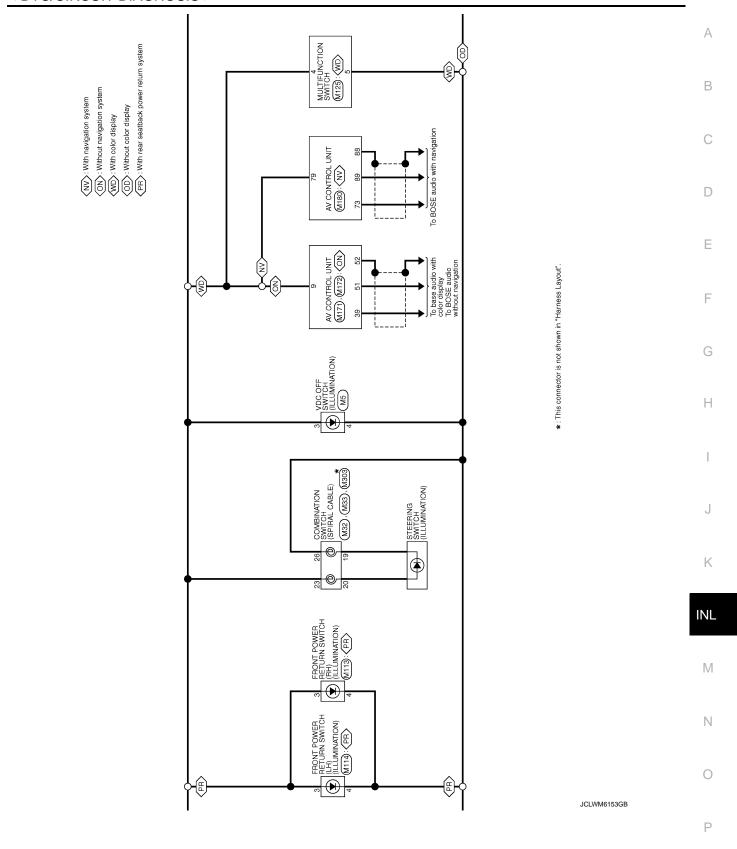
JCLWM6149GB

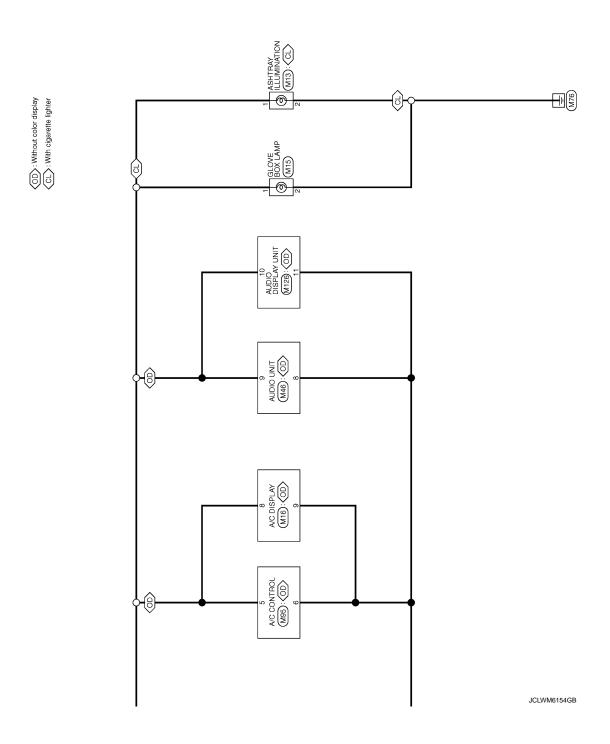




(ST): With heated steering
⟨HS⟩: With heated seat
⟨AB⟩: With automatic back door







Signal Name [Specification]   Sign	АВ
Connector No.   E34   Connector Name   FRONT DOOR SWITCH (DR Connector Type   A03FW   Color No.   Co	C
	E
	F
SE	
	Н.
Signal Name (Specification)	I
I BENAW.	J
8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	К
Commettor Na Comme	
	INL
1   1   1   1   1   1   1   1   1   1	М
	N
	IN
1LLUMINA   Connector No.   Connector No.   Connector No.   Connector Type   18   18   19   19   19   19   19   19	0
	JCLWM6155GB
	Р

Revision: 2011 November INL-43 2011 MURANO

No.   D21   S3   L   -   With automatic drive positioneral]   No.   D21   S3   L   -   With automatic drive positioneral]   No.   D32   D33   D43   -   With automatic drive positioneral]   No.   D33	Commercent Type   TH40FW-CS15   TH40FW-CS15   The Commercent Type   The Commercent Type	Terminal Color   Signal Name     Color     Color	10   C   C   C   C   C   C   C   C   C	33   6   -
Connector No. Connector Name Connector Type	of O	<u> </u>	17	35 L 41 P 42 GR 43 L 45 SB 46 R 50 V 51 O 51 O 52 L
15   0	8 9 10 11 12 13 Signal Name	8 Y Y 10 D D D D D D D D D D D D D D D D D D	Connector No. D16 Connector Name Front Tooks hatter two is thuman therest Connector Type TYOPFGY H.S.	Terminal Golor   Signal Name [Specification]   No of Wire
ILLUMINATION   Connector No.   B218    Connector Name   WIRE TO WIRE   Connector Type   TK10FW-NSS    TK10FW-NSS	Terminal   Color   Signal Name [Specification]   No.   Color   Wire   Signal Name [Specification]     W	10 B C C C C C C C C C C C C C C C C C C	Connector No. D8  Connector Name DOOR MIRROR FEMOTE CONTROL SWITCH  Connector Type TK16FW  T 2 3 4 5 6 7  8 9 10 11 12 13 14 15 16	Terminal Color No. of Mire 1 BB

JCLWM6156GB

### < DTC/CIRCUIT DIAGNOSIS >

FIT THOSPW-NH  THOSPW-NH  Signal Name [Specification]	АВ
Commettor No.   E11	C
E10	E
Name	G
9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Н
Color   Signal Name [Specification]   V   V   V   V   V   V   V   V   V	ı
Signal Na Signal	J
Connector No.   Color	К
	INL
TION  Day  Twopfor  Signal Name [Specification]	M
TION  110N	Ν
Terminal Color Name Connector Name Connector Type  Terminal Color  No. of Wire  1 L  2 Y  Connector Name Connector Name Connector Name 6 B  5 W  6 W  Connector Name Connector Type  A GR  A	0
JCLWM6157GB	Р

Revision: 2011 November INL-45 2011 MURANO

ILLUMINATION	TION							
Connector No.	E105	72	<u>۸</u>	1	Terminal	Color	Signal Name [Specification]	4 SB -
Connector Name	WIRE TO WIRE	73	+	1	No.	of Wire		
Connector Type	TH70MW-CS10-M3	75	≥ a	1 1	9 g	۸ -	1 1	Connector No M8
add I aba	TITOMIN COLO MO	2 9	+		9 5	٦ ,		Т
4		7 10	$^{+}$		g 2	5 -		Connector Name AWD LOCK SWITCH
•		78	╀	- [With navigation system]	6B	>	1	Connector Type TK06FW=1V
ģ E		78	ت س	- [With iPod without navigation system]	78	œ	-	1
		78	H	- [Without iPod and navigation system]	88	~	1	
		79	> 0		98	æ	1	
	2	8	~	1				T
		8	L	1				c
la Ta	Simol Massa [Sanajgantian]	82	5 re	1	Connector No.		M3	1531
No. of Wire	oighal Name Lopechication	83	0	-	Connector Name		FIISE BLOCK (1/B)	
3 У	1							ı
$\dashv$	1				Connector Type		NS12FW-CS	ē
1	1	Conn	Connector No.	M1	ą			No. of Wire
8 G	_	9	Connector Mame	FIRE BLOCK (1/B)	唐			۰ ۲
11 P	1	5		П	) I			2 SB –
12 L	1	Conne	Connector Type	NS06FW-M2	5		50 40	3 B
13 Y	-	4					120110110100 DB 27 BC	4 R -
14 0	1	B	_			_	1201101000001000	
15 BR	1	*	e					
20 Y	1	1	2	3A 7 2A 1A				
21 BR	1			, , , , , , , , , , , , , , , , , , ,	Terminal	Color	3	
H	1			8A / AlbA 3A 4A	No.	of Wire	Signal Name [Specification]	
H	1				9	BR	1	
25 0	1				70	В	1	
28 SB	1	Terminal	inal Color	3	80	ŋ	1	
H	1	No.	of Wire		96	GR	I	
30 Y	1	14	٨ ٨	1	100	as	1	
47 P	1	2A	9	1	110	Я	I	
48 L	1	3A	٨ ٨	1	120	0	1	
H	-	44	A GR	1				
50 GR	-	5A	H					
H	1	49	*	ī	Connector No.	Г	M5	
H	1	Ϋ́	H		4	Г		
53 GR	1	8A	H	1	Connector Name		VDC OFF SWILCH	
H	1				Connector Type	П	TK06FGY	
H	1				<u>'</u>	1		
26 W/L	1	Conne	Connector No.	M2	Ø			
H	1	, [		2000	\\			
61 BR	1	ė con	Connector Name		ė			
┝	1	Conn	Connector Type	NS10FW-CS			6 6 4 3 0 4	
63	1	<u> </u>	  r	1			ე ე	
S	1	ß	_					
Г	1	•	•					
F		4	ń E	48 38 T 38 48	Terminal	Color	3	
┝	1			١	No.	of Wire	Signal Name [Specification]	
es se	1			10B9B8B/BB 2B	-	×	ı	
70 GR					2			
╀					4 6			
+					,	٤		

JCLWM6158GB

(em) [em]	А
Signal Name [Specification]	В
	С
Terminal No. 10 of Wilson No. 2 of Mee No. 2 of Mee No. 2 of No. 2	D
[incation]  [incation]  [incation]  [incation]  [incation]  [incation]  [incation]  [incation]	Е
Name   GLOVE BOX LAMP	F
Connector No. M15  Connector Name GLOVE  Connector No. M16  Connector No. M16  Connector No. M16  Connector No. M18  Connector	G
Connector No.  Connec	Н
Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	1
	J
74 W W 75 L L W 75 BR 78 L L BR 78 L L BR 77 19 G R 81 W 82 W 82 W W 83 W W 10 Gromestor Name Growell Name Growel	К
	INL
Signal Name (Specification)	М
	N
UMINATION   Color No.   Colo	0
	JCLWM6159GB
	Р

Revision: 2011 November INL-47 2011 MURANO

Connector No.         M/33           Connector Name         COMERVATION SWITCH (SPIPAL CABLE)           Connector Type         TKOSFGY-1V           TA.S.         [24 25 26]           31 32 33 34	Terminal   Color   Signal Mane [Specification]   No. of Wire   Signal Mane [Specification]   24   BR		
Connector No. MZB Connector Name HEATED STEERING WHEEL SWITCH Connector Type NS06FW-CS  The Connector Type Conn	Terminal Color   Signal Name [Specification]   Color   Signal Name [Specification]	5 5 5	Terminal Color   Color   Signal Name [Specification]
	Connector Name WIRE TO WIRE  Connector Type TH16MW-NH  LS  1 2 3 4 5 6 7 8  9 10 11 12 13 14 15 16	Color   Signal Mane   of Wire   Signal Mane   W   W   W   SHIELD   - [Without raw   SHIELD   With naving   R   R   R   With naving   R   R   R   R   R   R   R   R   R	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ILLUMINATION   Connector No.   M20   Connector Type   TH40MW-CS15   Connector Type   TH40MW-CS15	No. of Wire   Signal Name [Specification]   1   V   C   C   C   C   C   C   C   C   C	>	24 P P

JCLWM6160GB

M10   M10	o fo	Ο α 🛪 >	> - P GR - > .	K V		
Connectt Connectt	Terminal No.	8 7 6	0 6 0 7 1 1 2 1 3 5	15 16 17		
M45 HAZARD SWITCH TRO4FW  3 1 2 4	Signal Name [Specification] -	1 1	M46 AUDIO UNIT THI8FW-CS2	1 2 3 4 5 6 7 8 9 101112131415161718 20	Signal Name [Specification] SOUND SIGNAL FRONT LH (+) SOUND SIGNAL ERA LH (+) SOUND SIGNAL ERA LH (+)	ACC ILLUMINATION CONTROL SIGNAL (+) ILLUMINATION CONTROL SIGNAL (+) SOUND SIGNAL FRONT RH (+) SOUND SIGNAL REAR RH (+) SOUND SIGNAL REAR RH (+)
П.П	Color of Wire B	S S		161	Color of Wire L B L LG	R S R R ≥ 0 d
Connector No. Connector Name Connector Type H.S.	Terminal No. 1	ε 4	Connector No. Connector Name Connector Type	H.S.	Terminal No. 2 3 4 4	7 8 9 11 12 13
TTON M34  COMBINATION METER TH40FW-NH  1 6 6 7 8 9 10 11 20 14 15 16 77 88 94 95 95 12 85 84 15 88 17 88 94 95 95 12 85 84 15 88 17 88 98 49	Signal Name [Specification] BAT IGN	GROUND GROUND ILLUMINATION CONTROL TEND RESET SWITCH	METER CONTROL SW GND  ENTER SWITCH  SELECT SWITCH	LILAMONING DOLING STRING IN CONTROL SWITCH (*)  ILLUMINATION ODNITROL SWITCH (*)  ARIBENT SENSOR  AMBIENT SENSOR POWER  AMBIENT SENSOR GROUND  CAN-H  CAN-H  CAN-H	CAN-L GROUND FUEL LEVEL SENSOR GROUND CHG PARKING BRAKE SWITCH BRAKE FUUD LEVEL SWITCH	WASHER LEIVEL SWITCH VEHICLE SPEED (S-PLUSE) VEHICLE SPEED (S-PLUSE) OD OFF / SPORTS FUEL LEIVEL SENSOR SSAT BELT BLOOKLE SWITCH (ORDANIS SUEE) SEAT BELT BLOOKLE SWITCH (ORDANIS SUEE)
	ې ک	B B B	9 ≥ 0 − α	> > B B	n	R G > 김 8 R
ILLUMINA Connector No. Connector Name Connector Type	Terminal No. 1	E 4 E	0 6 1 1 1 1 1 2 5	13 14 15 18 19 20 20	22 23 24 25 26 26	29 30 31 32 34 35 36

Α

В

С

D

Е

F

G

Н

J

Κ

INL

M

Ν

0

JCLWM6161GB

Ρ

ILLUN	ILLUMINATION	N						
Connector No.	. No. M77		47	┪		→ 66	1	Connector No. M85
Connector Name		WIRE TO WIRE	48	十	SHIELD -			Connector Name CVT SHIFT SELECTOR ILLUMINATION
Connector Type	П	TH80FW-CS19	20	Н		Connector No.	M83	Connector Type TK02FBR
Œ			52	> 6		Connector Name	METER CONTROL SWITCH	
E	_		53	╁	BR -	Connector Type	TH12FW-NH	·
2 =			54	Н		Ą		
			22	+	יי	李		1 2
		1	36	2 -		H.S.	/ /	
		)  - 	28	╁	- 88		1 2 3 4 5 6	
la la	Color	Simal Name [Specification]	29	S	ELD -		7 8 9 10 11 12	-e
Ÿ.	of Wire	ogial valle [opeoiloado]	9	$\dashv$				6
1	SHIELD	1	5	+		Ŀ		Υ
2 0	m i	1 1	9	+	* 0	Terminal Color	Signal Name [Specification]	2 SB
,			3 2	╀		T		
÷ u	4)		18	+		+		Month Month
n u	- 3		6 8	+		7 0		_
,	<b>*</b> (		3 5	+		Ŧ		Connector Name A/C CONTROL
- α	SHE O		ءُ ا <sup>ح</sup>	╀	1 1	+	1	Connector Type TH12FW-NH
t	M.		8 8	t	-	+	- [With automatic drive positioner]	1
ş Ç	: 0		Ì	t		+	- [Without automatic drive positionar]	4
2 =	2 0		٦	1 0		+		
- 6	, a		ľ	+		+		// / \ \
1 52	a C		·	╀	1			123456
4		1	74	╀	- ~			10
15	SB	1	75	H	-	Connector No.	M84	11010
16	œ	1	76	┞		l		
17	>	1	7	┝	BR -		DIODE	lal Color
18	Ь	1	79	H	- 8	Connector Type	24335 C9902	No. of Wire Signal Name [Specification]
19	Ь	1	80	Н	- A	4		1 G IGN
20	FG	-	8	Н	TG	厚		2 B GND
21	<b>,</b>	-	82	Ц		Ě	[	3 L RX (AMP>SW)
22	0	-	83	4		Hiel		4 P TX (SW>AMP)
23	PT	1	œ́	┩	GR - [Without automatic drive positioner]		1 0	æ
24	SB	-	84	4	R -			6 BR ILL-
25	<b>&gt;</b>	-	82	4				
27	>-	1	8	+		- 1-		
58	œ	1	81	+	-	Terminal Color	Signal Name [Specification]	
90	>	1	88	+		No. of Wire		
31	Α	1	88	+	8	+	1	
32	HB.	-	8	+		2 0	-	
7	>	ı	6	┨	- 5			
┪	SHIELD	1	92	+	BR -			
98 5	5	1	σi (	+				
3/	- c		40	+				
₹	o <u>c</u>		C S	0 8				
Ę	2 6		200	+				
45	97 -		6	+				
40	5		ń	┨	ו			

JCLWM6162GB

Connector No.   MI19	
Terminal   Color   Signal Name [Specification]   No.   Wire   Signal Name [Specification]   No.   Wire   No.   Wire   No.   Wire   No.   Wire   No.   Order   Or	
Connector No.   MIID	
Connector Name   PUSH-BUTTON IGNITION SWITCH	JCLWM6163GB

Revision: 2011 November INL-51 2011 MURANO

0

В

Α

С

D

Е

F

G

Н

ī

J

K

INL

M

Ν

Р

ILLUMIN Connector No.	LLUMINATION	TION	Connector No.		M123	Terminal Color		ر د	SOLIND SIGNAL REAR	SOUND SIGNAL REAR DOOR SPEAKER LH (-)
		(1 magning (2 magn) magn		Г	THE CONTROL OF THE CO	_	Signal Name [Specification]	6 BR	T	STRG SW A
Connector Name	or Name	BCM (BODY CONTROL MODULE)	Connector Name		BCM (BODY CONTROL MODULE)	-	GND	7 W		ACC [With BOSE system]
Connector Type	or Type	TH40FB-NH	Connector Type	Г	TH40FG-NH	3 M	ACC	7 F	R ACC [Without	ACC [Without BOSE system]
þ			þ			4 R	ורר	9		ILLUMINATION
F			医			5 B	ILL CONT	11	W SOUND STONAL FRONT DOOR SPEA	SOUND SIGNAL FRONT DOOR SPEAKER AND FRONT SQUAWKER RH (+)
) He			e e			+	AV COMM (H)	+	T	SOUND SIGNAL FRONT DOOR SPEAKER AND FRONT SQUAWKER RH (-)
						8 FG	AV COMM (L)	-	1	SOUND SIGNAL REAR DOOR SPEAKER RH (+)
	91 90 89 8 111 110 109 10	88 87 86 85 84 83 82 81 80 73 78 77 76 75 74 73 72 108 107 106 105 104 103 102 101 100 89 88 97 86 95 84 83 92		151 150 149 148	127 125 125 124 123 122 121 120 119 118 177 115 115 114 113 112 147 146 145 144 143 142 141 140 139 138 137 136 135 135 135 132	> 3 6 2	SW GND	14 P	†	SOUND SIGNAL REAR DOOR SPEAKER RH (=)
						1	ESECT SIGNAL	+	STEG	STER SW B
								╀		BATTERY
Terminal	⊢	Signal Name [Specification]	Terminal	Color	Signal Name [Specification]	Connector No. M126	26	20 B		GND
o S	of Wire		o S	of Wire	DAIN SENSOD SEDIAL LINK	Connector Name AU	AUDIO DISPLAY UNIT			
1 22	3	ROOM ANT 2+	113	: 0	OPTICAL SENSOR	Connector Type TH	TH12FW-NH	Connector No.	M172	
74	>	PASSENGER DOOR ANT-	116	æ	FUSE CHECK				П	
75	LG	PASSENGER DOOR ANT+	118	٦	STOP LAMP SW	Œ		Connector Name	AV CONTROL UNIT	
9/	>	DRIVER DOOR ANT-	119	W	DR DOOR UNLOCK SENSOR	<u>ا</u>	7	Connector Type	e TH24FW-NH	
77	Д.	DRIVER DOOR ANT+	121	>	KEY SLOT SW	TI ST	Ŀ	þ		
80	SB.	IMMOBI ANTENNA CONTROL	123		IGN F/B		o 4	手		Г
81	0	IMMOBI ANTENNA SIGNAL	124	~	PASSENGER DOOR SW		7 8 9 10 11 12	S.	<u>(</u>	
85	H G	IGN RELAY (F/B) CONT	130	H G	REAR DEFOGGER SW			=	36 37 38 39 40 41 42 43	3 44 45 46 47
3 5	1 0	COMPLEX INDITE	133	5 3	PLOWER WINDOW SW COMMIN	Torminal		S S	50 51	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
8	GR	COMBI SW INPUT 3	134	<u> </u>	LOCK IND	_	Signal Name [Specification]	ij	20 00 00 00 00 00 00 00 00 00 00 00 00 0	20 00
06	۵	CAN-L	137	۵	RECEIVER / SENSOR GND	- 5	AV COMM (L)			
91	٦	CAN-H	138	^	RECEIVER / SENSOR POWER SUPPLY	2 R	AV COMM (H)	lal		Simal Name [Spacification]
95	œ	KEY SLOT ILL	139	0	TIRE PRESS RECEIVER SIGNAL	3 B	GND	No. of V	of Wire	Thomas and a
93	Ь	ON IND	140	GR	SHIFT N/P	8	ACC	+		SIGNAL VCC
95	]	ACC RELAY CONT	141	0	SECURITY INDICATOR OUTPUT	+	## #	+		SIGNAL GND
8 8	>	CVT SHIFT SELECTOR POWER SUPPLY	142	-	COMBI SW OUTPUT 5	2 2	ILLUMINATION CONTROL SIGNAL (+)	88 8	5	HP (TimOo) distal (minoo)
£ 001	> 0	PASSENGER DOOR REQUEST SW	144	۵ ء	COMBLSW CUTPUT 2	+	ILLUMINATION CONTROL SIGNAL (-)	+	W RGB ARFA	RGB AREA (YS) SIGNAL
101	Α	DRIVER DOOR REQUEST SW	145	>	COMBI SW OUTPUT 3			돐		SHIELD
102	>	BLOWER FAN MOTOR RELAY CONT	146	>	COMBI SW OUTPUT 4	Connector No. M171	17	42 B		RGB SYNC
103	٦,	KEYLESS ENTRY RECEIVER POWER SUPPLY	150	SB	DRIVER DOOR SW	Connector Name AV	AV CONTROL LINIT	43 G		RGB (R:RED) SIGNAL
107	0	COMBI SW INPUT 1	151	g	REAR WINDOW DEFOGGER RELAY	. 1		44	RGB (G:GRE	RGB (G:GREEN) SIGNAL
108	۵	COMBI SW INPUT 4				Connector Type TH	TH18FW-CS2	45	, RGB (B:BL	RGB (B:BLUE) SIGNAL
60 5	SB	COMBI SW INPUT 2	Nactorino No	Γ	2011	1		46	V COMPOSITE IMA	COMPOSITE IMAGE SIGNAL GND
	2	HAZARD SW	000	Т	W123	李		+	1	INVESTED VCC
			Connector Name		MULTIFUNCTION SWITCH	Ξ		49	INVERT	INVENTER OND
			Connector Type	Т	TH16FW-NH		23456789	╁		0.00
			<u></u>	1		19	15 16	╀		COMM (CONT->DISP)
			低			2	2	52 SHIELD		SHIELD
			Ę					57 SHIELD		SHIELD
			į	Ľ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lau	Signal Name [Specification]	SHI SHI	SHIELD SHI	SHIELD
					3 5 7 0 11 12	No. or Wire	SOUND SIGNAL FRONT DOOR SPEAKER AND FRONT SQUAWKER LH (+)			
					0 1 0	П	SOUND SIGNAL FRONT DOOR SPEAKER AND FRONT SQUAWKER LH (-)			
						4 LG SC	SOUND SIGNAL REAR DOOR SPEAKER LH (+)			

JCLWM6164GB

### < DTC/CIRCUIT DIAGNOSIS >

	А
Signal Name [Specification]	В
MAP LAN TKOBE GO.	С
Connector No  Connector Name Connector Type    1	D
fination]  system]  n system]  n system]  fination]	Е
WIRE TO WIRE   THI 6FW-NH	F
Name	G
Connector No.	Н
Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	I
N208	J
Connector Name of Wire of B B B B B B B B B B B B B B B B B B	K
	INL
TON	M
Name	N
ILLUMINA TION   Connector No.   M180   Connector No.   M180   Connector No.   M180   Connector Type   TH82FN   Connector Type   Connector Type   Connector Type   Connector No.   Color   Connector No.   Color   Connector No.   Connector	0
JCLWM6165GB	Р
	1

Revision: 2011 November INL-53 2011 MURANO

< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

# BCM (BODY CONTROL MODULE)

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
TIX WIF LIX TII	Front wiper switch HI	On
ED WIDED LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
FR WIPER IN I	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
KK WIFEK ON	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
KK WIPEK INI	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
KK WASHEK SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMD CW/	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
LI DEVIN 200	Lighting switch HI	On
LIEAD LAMD CW/4	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
HEAD LAMD CW 2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA CCINIC CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LICHT CM	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOC CW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On

Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOD OW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD 014/ 4.0	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD CW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD SW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DOOD CW DV	Back door closed	Off
DOOR SW-BK	Back door opened	On
CDL LOCK CW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
CDL LINI OCK CW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEY OVI LIK OW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEN CAL TIM CAN	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
<b>NOTE:</b> For models with BOSE audio system this item is not monitored.	Rear window defogger switch ON	On
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
TR/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
DIVE I OOK	LOCK button of Intelligent Key is not pressed	Off
RKE-LOCK	LOCK button of Intelligent Key is pressed	On
DIVE LINE COL	UNLOCK button of Intelligent Key is not pressed	Off
RKE-UNLOCK	UNLOCK button of Intelligent Key is pressed	On
DVE TD/DD	BACK DOOR OPEN button of Intelligent Key is not pressed	Off
RKE-TR/BD	BACK DOOR OPEN button of Intelligent Key is pressed	On
DIVE DANIO	PANIC button of Intelligent Key is not pressed	Off
RKE-PANIC	PANIC button of Intelligent Key is pressed	On
DIVE DAM ODEN	UNLOCK button of Intelligent Key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of Intelligent Key is pressed and held	On

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off
RRE-WODE CHG	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OF HOAL SENSOR	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
NEQ 3W -DIN	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NEW OW THO	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
ILM OAA -DD/ II/	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
FUSH SW	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
IGN KLTZ -F/D	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
DRANE SW Z	Stop lamp switch 1 signal circuit is normal	On
DETE/CANCL SW	Selector lever in P position	Off
DETE/CANGE SW	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
51 1 1 W/W 5W	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
UNLK SEN -DR	Driver door is unlocked	Off
CITEL OLIV DIX	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
ON INCLUITUD	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CET DN IDDM	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
SFI P-IVIET	Selector lever in P position	On
	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENGINE CTATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Power supply position in LOCK position	Reset
ID ON FLAG	Power supply position in any position other than LOCK	Set
PRMT ENG STRT	The engine start is prohibited	Reset
FINIVIT EING STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEN SM SLOT	Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The Intelligent Key ID that the key slot receives is not recognized by any Intelligent Key ID registered to BCM.	Yet
CONFRINTID ALL	The Intelligent Key ID that the key slot receives is recognized by any Intelligent Key ID registered to BCM.	Done
CONFIRM ID4	The Intelligent Key ID that the key slot receives is not recognized by the fourth Intelligent Key ID registered to BCM.	Yet
CONFINIVI ID4	The Intelligent Key ID that the key slot receives is recognized by the fourth Intelligent Key ID registered to BCM.	Done

Revision: 2011 November INL-57 2011 MURANO

Monitor Item	Condition	Value/Status
CONFIRM ID3	The Intelligent Key ID that the key slot receives is not recognized by the third Intelligent Key ID registered to BCM.	Yet
CONFIRM IDS	The Intelligent Key ID that the key slot receives is recognized by the third Intelligent Key ID registered to BCM.	Done
CONFIRM ID2	The Intelligent Key ID that the key slot receives is not recognized by the second Intelligent Key ID registered to BCM.	Yet
CONFIRMIDZ	The Intelligent Key ID that the key slot receives is recognized by the second Intelligent Key ID registered to BCM.	Done
CONFIDM ID4	The Intelligent Key ID that the key slot receives is not recognized by the first Intelligent Key ID registered to BCM.	Yet
CONFIRM ID1	The Intelligent Key ID that the key slot receives is recognized by the first Intelligent Key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
1 P 4	The ID of fourth Intelligent Key is registered to BCM	Done
	The ID of third Intelligent Key is not registered to BCM	Yet
TP 3	The ID of third Intelligent Key is registered to BCM	Done
TD 0	The ID of second Intelligent Key is not registered to BCM	Yet
TP 2	The ID of second Intelligent Key is registered to BCM	Done
FD 4	The ID of first Intelligent Key is not registered to BCM	Yet
TP 1	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
D REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGGI FLI	ID of front LH tire transmitter is not registered	Yet
ID DECCT ED4	ID of front RH tire transmitter is registered	Done
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGOT KRT	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DI 1	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
MADNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DI 177ED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

Α

В

C

D

Е

F

G

Н

K

INL

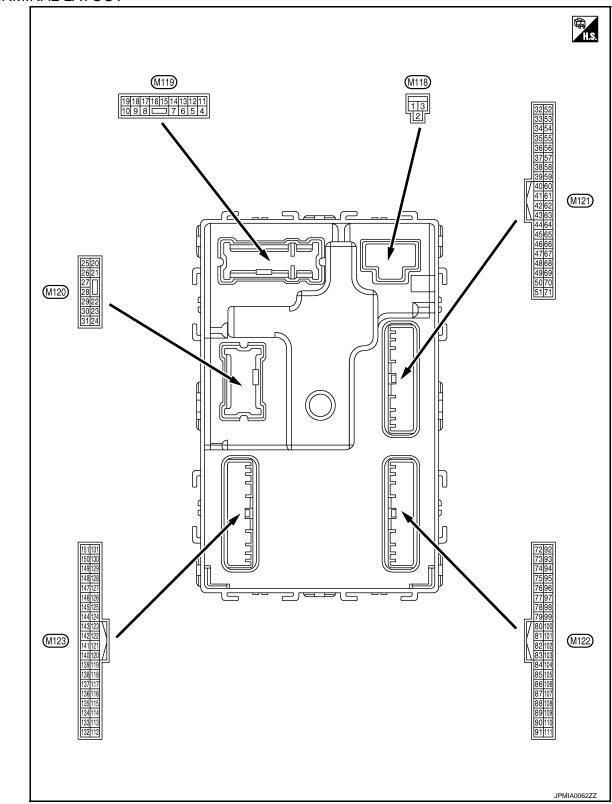
M

Ν

0

Р

## TERMINAL LAYOUT



PHYSICAL VALUES

Revision: 2011 November INL-59 2011 MURANO

Term	inal No.	Description				
(Wire	e color)	Signal name	Input/		Condition	Value (Approx.)
+	_	Oignai name	Output			` ' '
(W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
(GR)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage
3 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4					battery saver is activated. oom lamp power supply)	0 V
4 (P)	Ground	Interior room lamp power supply	Output	ed.	battery saver is not activat- or room lamp power supply)	Battery voltage
5	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	rasseriger door	Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp	Output	Step lamp	ON	0 V
(Y)	Ground	Otop lamp	Output	Otop lamp	OFF	Battery voltage
8	Ground	All doors LOCK	Output	Output All doors	LOCK (Actuator is activated)	Battery voltage
(V)	Oround	All doors LOCK	Output	All doors	Other than LOCK (Actuator is not activated)	0 V
9	0	Driver de la LINII OOK	Outrout	D.i d	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	Driver door UNLOCK	Output	Driver door	Other than UNLOCK (Actuator is not activated)	0 V
10	01	Rear RH door and	0.1.1	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage
(P)	Ground	rear LH door UN- LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V
11 (LG)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0 V
					OFF	0 V
14 (O)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position  (V)  10  2 ms  JSNIA0010GB
15 (L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK and ON indicator lamps are not illuminated.)	Battery voltage
					ACC	0 V

Terminal No. (Wire color)		Description				Value	
+ (vvir	e color)	Signal name	Input/ Output	Condition		(Approx.)	
					Turn signal switch OFF	0 V	
17 (G) Ground T	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V		
					Turn signal switch OFF	0 V	
18 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s	
19		Room lamp timer		Interior room lamp	OFF	6.5 V  Battery voltage	
(Y)	Ground	control	Output		ON	0 V	
00					OPEN (Back door opener actuator is activated)	Battery voltage	
23 (BR)	Ground	Back door open	Output	Output Back door	Other than OPEN (Back door opener actuator is not activated)	0 V	
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V	
(G)	Orodria	rteal wiper	Output	real wiper	ON (Operated)	Battery voltage	
34	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s  JMKIA0062GB	
(B) Ground	na (-)			When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s		

	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
35	Ground	Luggage room anten-	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(W)	Glound	na (+)			When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
38		Ind Rear bumper antenna (-)	Output	When the back door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(L)	Clound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
39	Ground	Rear bumper anten-	Output	When the back door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)	Sibulid	na (+)	Zapar		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s  JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
(L)		E/R) control		•	ON	0 V

(Wire	O COLOT	Description				Value	
	-	Signal name	Input/ Output		Condition	(Approx.)	
				Ignition switch	When selector lever is in P or N position	Battery voltage	
52 (R)	Ground	Starter relay control	Output	ON	When selector lever is not in P or N position	0.3 V	
				Ignition switch OF	F	0 V	
60		Push-button ignition		Push-button igni-	Pressed	0 V	
(BR)	Ground	switch (push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage	
					ON (Pressed)	0 V	
61 (R)	Ground	Back door request switch	Input	Back door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	
64	0	\\\\- \\\- \\\- \\\- \\\- \\\- \\\- \\	Outrot	\\/a == !	Sounding	0 V	
(GR)	Ground	Warning buzzer	Output	Warning buzzer	Not sounding	Battery voltage	
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB	
					Not in stop position	0 V	
66 (Y)	Ground	Back door switch	Input	Back door switch	OFF (When back door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
					ON (When back door opens)	0 V	
					Pressed	0 V	
67 (LG)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB	

	ninal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
68 (W)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (When rear RH door opens)	0 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (When rear LH door opens)	0 V
72	Ground	und Room antenna (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(B)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	inal No.	Description				Value	Λ	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α	
73	Canada	Room antenna (+)	Outside	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	B C	
(W)	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s	E F	
74	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	G H	
(Y)	Glound	tenna (-)	ope	i	operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s	J K
75	Ground	Passenger door an-	Outout	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M	
(LG)	Ground	tenna (+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	O P	

	ninal No. re color)	Description				Value	
+	- COIOT)	Signal name	Input/ Output	Condition		(Approx.)	
76	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
77	Ground	Driver door antenna (+)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s  JMKIA0062GB	
(P)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s  JMKIA0063GB	
80 (SB)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
81 (O)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
82	Ground	Ignition relay [fuse	Output	Ignition switch	OFF or ACC	0 V	
(BR)	Cidana	block (J/B)] control	Caipai	igililion switch	ON	Battery voltage	

Terminal No. (Wire color)		Description		Condition		Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
83	Ground	Remote keyless entry receiver communica- tion	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(P)	Ground			When operating e	ither button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB	
87 (R)		round  Combination switch Input  Combination switch INPUT 5  Combination switch INPUT 5  Any of the conditions below with all switches OFF  Wiper intermittent dial 4  Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 1  Wiper intermittent dial 6  Wiper intermittent dial 7				15 10 5	
	Ground		15	II			
				SWILCH		15 10 5	
					with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 6	10	

	Terminal No. Description (Wire color)			Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0036GB 1.3 V
88 (GR)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0037GB 1.3 V
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 0 2 ms JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
90 (P)	Ground	CAN - L	Input/ Output		_	_
91 (L)	Ground	CAN - H	Input/ Output		_	_

Terminal No.		Description				Value	
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					OFF	0 V	
92 (R)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	
					ON	6.5 V  Battery voltage	
93 (P)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK and ACC indicator lamps are not illuminated.)	Battery voltage	
					ON	0 V	
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V	
(L)	Cround	•	Output	igilition switch	ACC or ON	Battery voltage	
96 (Y)	Ground	CVT shift selector (detention switch) power supply	Output		_	Battery voltage	
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V	
(V)	Ground	tion switch	IIIput	Selector level	Any position other than P	Battery voltage	
					ON (Pressed)	0 V	
100 (P)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	
					ON (Pressed)	0 V	I١
101 (W)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V	(
(Y)	Giound	lay control	Output	igiiiion switch	ON	Battery voltage	
103 (L)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage	

	inal No.	Description				Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)		
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB		
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB		
107 (O)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V		
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB		
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V		

Terminal No.	Description				Value	
(Wire color)	Signal name	Input/ Output	Input/ Condition Output		(Approx.)	
				All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
				Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms  JPMIA0038GB 1.3 V	
108 (P) Ground	Combination switch INPUT 4	Input	oput Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	
				Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB	
				Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms	

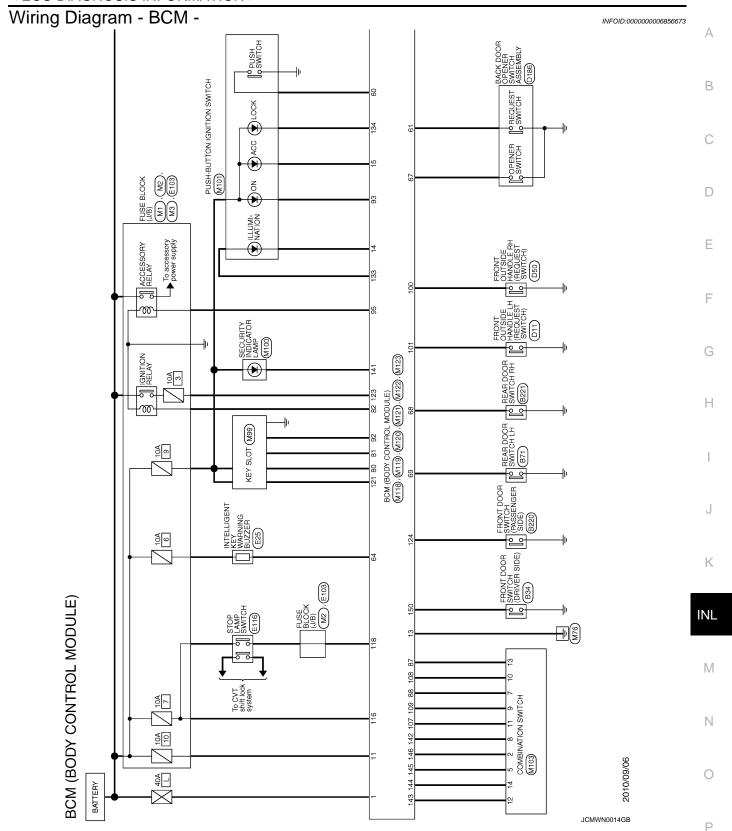
	inal No. e color)	Description			O to Proper	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (SB)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
-					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms 10 ms JPMIA0012GB

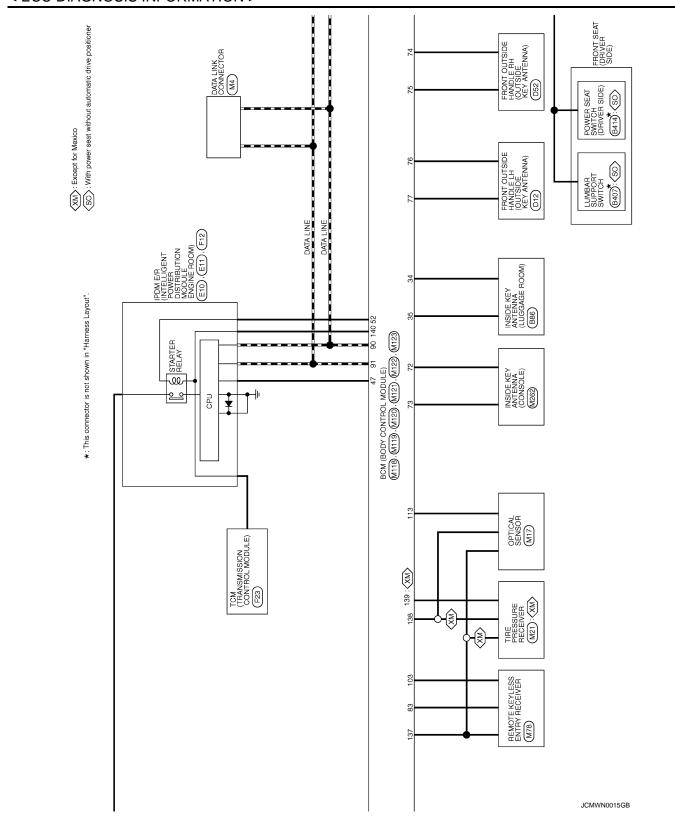
	inal No.	Description				Value	Λ
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10ms JPMIA0156GB 8.7 V	B C D
113	Cround	Ontical concer	loout	Ignition switch	When bright outside of the vehicle	Close to 5 V	
(O)	Ground	Optical sensor	Input	ŌN	When dark outside of the vehicle	Close to 0 V	Е
116 (GR)	Ground	Stop lamp switch 1	Input		_	Battery voltage	F
118	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V	
(L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	ON (Brake pedal is de- pressed)	Battery voltage	G
119 (W)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (unlock sensor switch OFF)	(V) 15 10 5 10 ms JPMIA0012GB	H
					UNLOCK status (unlock sensor switch ON)	0 V	
121	Ground	Koy glot gwitch	Innut	When Intelligent K	Cey is inserted into key slot	Battery voltage	K
(Y)	Giodila	Key slot switch	Input	When Intelligent K	ey is not inserted into key slot	0 V	
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V	INL
(G)	2.34.14		put		ON	Battery voltage	
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	M N
					ON (When passenger door opens)	0 V	_

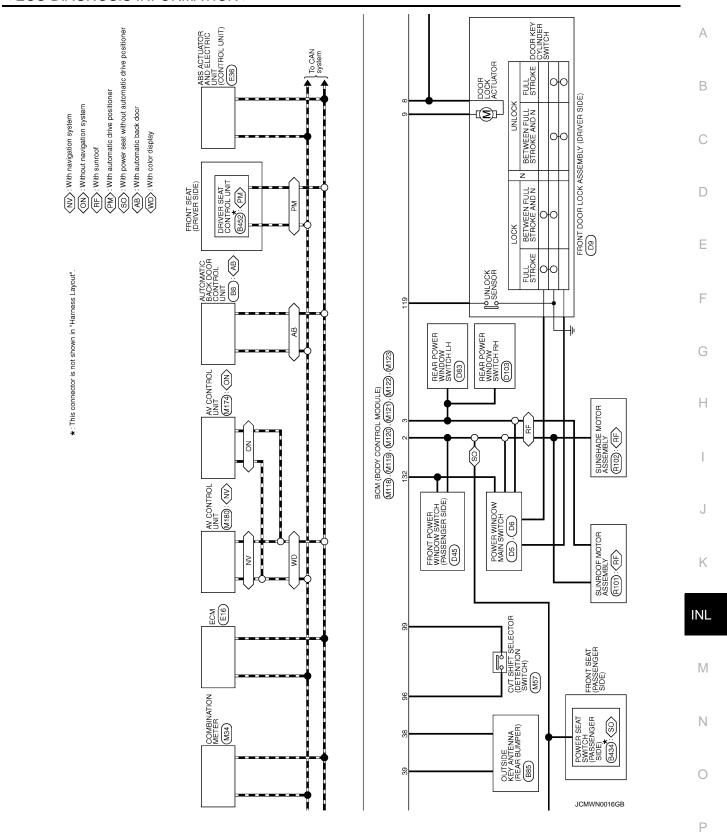
	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
130 (BR)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms JPMIA0012GB
					Rear window defogger switch ON	0 V
132 (G)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB 10.2 V
				Ignition switch OF	F or ACC	Battery voltage
					ON (When tail lamps OFF)	9.5 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (When tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.  (V) 15 10 5
					OFF	JPMIA0159GB
					OFF (ACC and ON indica-	0 V
134 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	tor lamps are not illuminated.)	Battery voltage
137		Receiver and sensor			ON	0 V
(P)	Ground	ground	Input	Ignition switch ON		0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(V)		power supply	•		ACC or ON	5.0 V

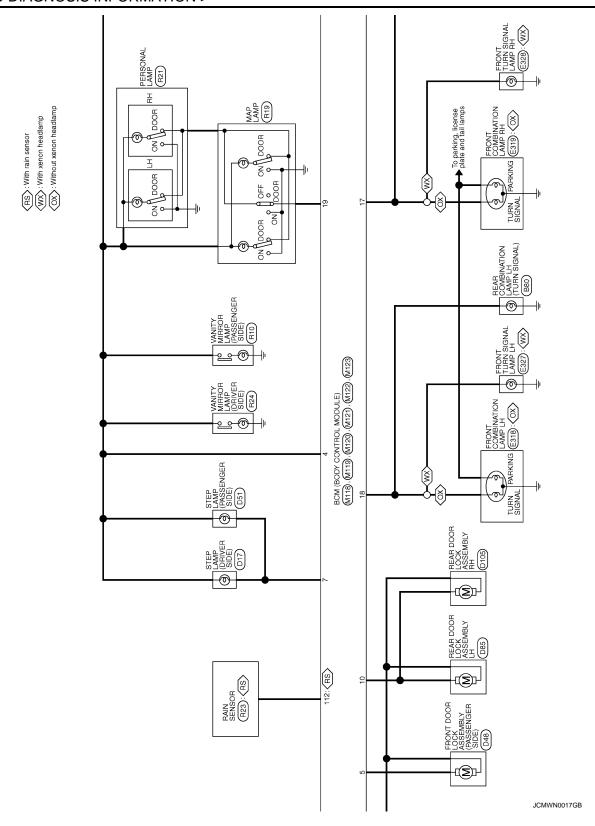
	inal No. e color)	Description	T		0 111	Value
+	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)
139	Constant	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 *** 0.2s
(O)	Ground	er communication	Output	ŎN	When receiving the signal from the transmitter	(V) 6 4 2 0 
140		Selector lever P/N			P or N position	Battery voltage
(GR)	Ground	position	Input	Selector lever	Except P and N positions	0 V
					ON	0 V
141 (O)	Ground	Security indicator	Output	Security indicator	Blinking	JPMIA0014GB  11.3 V  Battery voltage
142 (L)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND  Turn signal switch RH	0 V  (V) 15 10 2 ms  JPMIA0031GB
143 (W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	0 V  15 10 2 ms  JPMIA0032GB  10.7 V

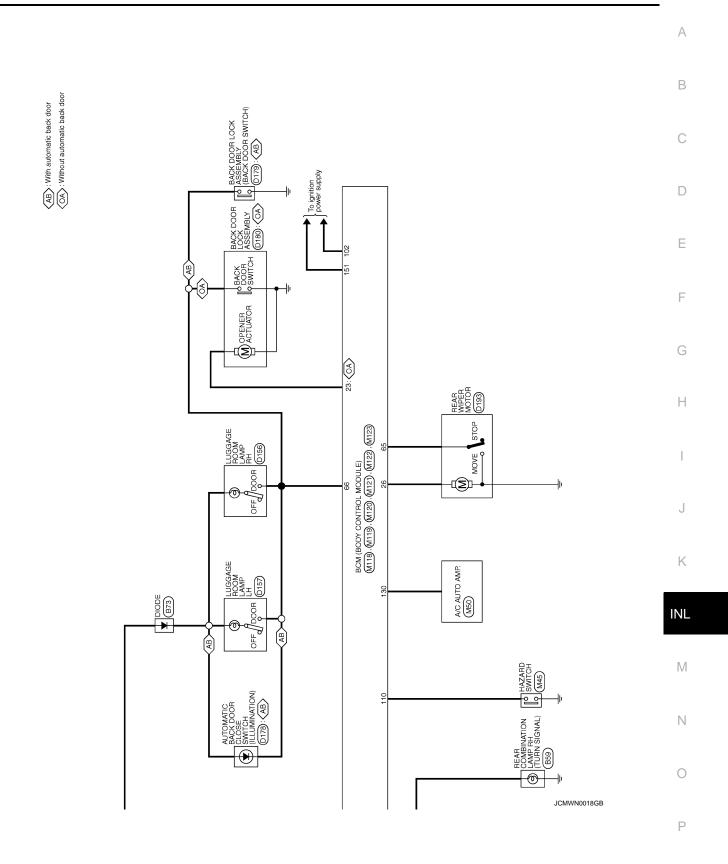
	inal No.	Description				Val.
(Wire	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
144		Combination switch	0 1 1	Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15
(P)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	5 0
					Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	2 ms JPMIA0033GB
					All switches OFF	0 V
145		Combination switch		Combination switch	Front wiper switch INT/ AUTO Front wiper switch LO	(V) 15 10
(V)	Ground	OUTPUT 3	Output	(Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB 10.7 V
-					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(Y)		OUTPUT 4		(Wiper intermit- tent dial 4)	Turn signal switch LH	0 2 ms JPMIA0035GB
150 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (When driver door opens)	0 V
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V
(G)	Ground	ger relay control	Output	fogger	Not activated	Battery voltage











비	ſ					
Connector No. M103	Connector No. M119	Connector No.	M121	82	ž i	IGN RELAY (F/B) CONI
Connector Name COMBINATION SWITCH	Connector Name BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)	83	1 0	COMPLEXE SIGNAL
Connector Type TH16FW-NH	Connector Type NS16FW-GS	Connector Type	TH40FGY-NH	88	<u> </u>	COMBI SW INPUT 3
1	1			06	۵	-NAC
6	C	13		16	-	CAN-H
		2 2 2		95	۳	KEY SLOT ILL
	4 5 6 7 0 8 9 10	ē I		93	۵	ON IND
2 3 4	11 12 13 14 15 16 17 18 19	51 50 49	8 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32	98	_	ACC RELAY CONT
7 8 9 10 11 12 13 14	01 01 01	V 1/0 69	26 67 66 65 65 65 67 60 56 56 57 56 55 55 55 55 55	96	>	CVT SHIFT SELECTOR POWER SUPPLY
				66	>	SHIFT P
ŀ	ŀ	ŀ		2	۵	PASSENGER DOOR REQUEST SW
la	la	la	Signal Name [Specification]	<u></u>	≥ :	DRIVER DOOR REQUEST SW
No. of Wire	No. of Wire	No. of Wire	- FINA MOOD BOADOIL	102	> -	BLOWER FAN MOTOR RELAY CONT
	t	+	LIIGGAGE ROOM ANT 1+	101	1 0	COMBI SW INDIT 1
3 O FR	· >-	╀	REAR BUMPER ANT-	108	۵	COMBI SW INPUT 4
	8 V ALL DOOR, FUEL LID LOCK OUTPUT	39 BR	REAR BUMPER ANT+	109	SB	COMBI SW INPUT 2
5 V OUTPUT 3	9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	47 L	IGN RELAY IPDM E/R CONT	110	g	HAZARD SW
	REAR DO	$\dashv$	STARTER RELAY CONT			
GR	LG BA	7	EXTRA IN 2			
	В,	+	BACK DOOR OPENER REQUEST SW			
9 SB INPUT 2	14 O PUSH-BUTTON IGNITION SWILL GND	64 GR	PEQUEST SW BUZZER			
ъ (	H	60 93	REAR WIPER STOP POSITION			
i Elidatio	1) G IORN SIGNAL RH	00 53	BACK DOOR SW			
\$ 0	NO 00	+	DACK DOOR OF ENER SW			
× 0	19 Y ROOM LAMP LIMER CONTROL	+	REAK RH DOOR SW			
14 P 001P012		Y 69	REAR LH DOOR SW			
	Connector No. M120					
Connector No. M118	L	Connector No.	M122			
Connector Name BCM (BODY CONTROL MODULE)	$\neg$	Connector Name	BCM (BODY CONTROL MODULE)			
Т	Connector Type NSTZFW-CS					
Connector Type M03FB-LC	4	Connector Type	TH40FB-NH			
Œ		Œ				
<u></u>	20 21   12   23   24	S.				
<u> </u>	25 26 27 28 29 30 31	91 80 88	88 87 86 85 84 83 82 81 80 79 77 76 75 74 73 72			
2		111111111111	08 107 106 105 104 108 102 101 100 199 198 197 196 195 194 193 192			
le le	of Wire	la l	Signal Name [Specification]			
e.	BR	ь				
2 CP DOWED WINDOW DOWED SLIDDI Y (BAT)	26 G REAK WIPER OUTPUT	72 B	FOOM ANI 2-			
+		+	DASSENGER DOOR ANT-			
,		75	PASSENGER DOOR ANT+			
		╀	DRIVER DOOR ANT-			
		77 P	DRIVER DOOR ANT+			
		80 SB	IMMOBI ANTENNA CONTROL			
		81 0	IMMOBI ANTENNA SIGNAL			

JCMWN0019GB

## < ECU DIAGNOSIS INFORMATION >

Α

В

C

D

Е

F

G

Н

Κ

INL

M

Ν

0

JCMWN0020GB

INFOID:0000000006856674

Fail-safe

# BCM (BODY CONTROL MODULE)

# FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

#### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  • Starter control relay signal  • Starter relay status signal
B2607: S/L RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following CAN signal communication status becomes consistent</li> <li>Steering lock relay signal (Request signal)</li> <li>Steering lock relay signal (Condition signal)</li> </ul>
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent  • Starter motor relay control signal  • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

#### HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while activating the hazard warning lamp.

#### FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

#### NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF  $\Rightarrow$  ON and front wiper switch is INT/AUTO position, BCM operates a fail-safe control.

#### REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

#### Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stop.
- Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

#### < ECU DIAGNOSIS INFORMATION >

# DTC Inspection Priority Chart

INFOID:0000000006856675

Α

В

D

Е

Н

K

Ν

0

Р

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

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM U1010: CONTROL UNIT(CAN)	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING	
4	<ul> <li>B2553: IGNITION RELAY</li> <li>B2555: STOP LAMP</li> <li>B2556: PUSH-BTN IGN SW</li> <li>B2557: VEHICLE SPEED</li> <li>B2560: STARTER CONT RELAY</li> <li>B2601: SHIFT POSITION</li> <li>B2602: SHIFT POSITION</li> <li>B2603: SHIFT POSI STATUS</li> <li>B2604: PNP SW</li> <li>B2605: PNP SW</li> <li>B2606: STARTER RELAY</li> <li>B2607: ENG STATE SIG LOST</li> <li>B2607: ENG STATE SIG LOST</li> <li>B2614: ACC RELAY CIRC</li> <li>B2615: BLOWER RELAY CIRC</li> <li>B2616: IGN RELAY CIRC</li> <li>B2617: STARTER RELAY CIRC</li> <li>B2618: BCM</li> <li>B2619: VEHICLE TYPE</li> <li>B2619: VEHICLE TYPE</li> <li>B2610: VEHICLE SPEED SIG</li> <li>U0415: VEHICLE SPEED SIG</li> </ul>	
5	<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] RL</li> <li>C1716: [PRESSDATA ERR] FL</li> <li>C1717: [PRESSDATA ERR] FR</li> <li>C1718: [PRESSDATA ERR] RR</li> <li>C1719: [PRESSDATA ERR] RR</li> <li>C1734: CONTROL UNIT</li> </ul>	
6	B2622: INSIDE ANTENNA     B2623: INSIDE ANTENNA	

DTC Index

INFOID:0000000006856676

#### NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-18</u>, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condi-	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected.		tion			
further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-38
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-39
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-45
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-48
B2195: ANTI SCANNING	×	_	_	_	SEC-49
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	SEC-50
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-52
B2557: VEHICLE SPEED	×	×	×	_	SEC-54
B2560: STARTER CONT RELAY	×	×	×	_	SEC-55
B2562: LOW VOLTAGE	_	×	_	_	BCS-41
B2601: SHIFT POSITION	×	×	×	_	SEC-56
B2602: SHIFT POSITION	×	×	×	_	SEC-59
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-61
B2604: PNP SW	×	×	×	_	SEC-64
B2605: PNP SW	×	×	×	_	SEC-66
B2608: STARTER RELAY	×	×	×	_	SEC-68
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-70
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55
B2616: IGN RELAY CIRC	_	×	×	_	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-72
B2618: BCM	×	×	×	_	PCS-61
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-75
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-78</u>
B2622: INSIDE ANTENNA		×		_	DLK-91
B2623: INSIDE ANTENNA	_	×	_	_	DLK-93
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-71
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	
C1706: LOW PRESSURE RR	<del>_</del>	_	_	×	<u>WT-23</u>
C1707: LOW PRESSURE RL		_	_	×	-

# < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT-25
C1710: [NO DATA] RR	_	_	_	×	<u>W1-23</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-28
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>VV 1-20</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-29</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-30</u>

G

Α

В

С

D

Е

F

Н

J

Κ

INL

M

Ν

0

P

## < ECU DIAGNOSIS INFORMATION >

# **COMBINATION METER**

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading <b>NOTE:</b> 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km/h or mph]	Ignition switch ON	_	Equivalent to odometer reading in combination meter
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading <b>NOTE:</b> 8191.875 is displayed when the mal- function signal is received
FUEL METER [L]	Ignition switch ON	_	Values according to fuel level
W TEMP METER [°C]	Ignition switch ON	_	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input
FUEL CAR W/	Ignition switch	Fuel filler cap warning display ON	On
FUEL CAP W/L	ŎN	Fuel filler cap warning display OFF	Off
A D.C. \A//I	Ignition switch	ABS warning lamp ON	On
ABS W/L	ON	ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch	VDC OFF indicator lamp ON	On
VDC/TCS IND	ON	VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch	SLIP Indicator lamp ON	On
SLIF IND	ON	SLIP indicator lamp OFF	Off
BRAKE W/L	Ignition switch	Brake warning lamp ON	On
DIVARLE W/L	ON	Brake warning lamp OFF	Off
DOOR W/L	Ignition switch	Door warning lamp ON	On
DOOR W/L	ON	Door warning lamp OFF	Off
HI-BEAM IND	Ignition switch	High-beam indicator lamp ON	On
HI-BEAM IND	ON	High-beam indicator lamp OFF	Off
TURN IND	Ignition switch	Turn signal indicator lamp ON	On
TURN IND	ON	Turn signal indicator lamp OFF	Off
LIGUETIND	Ignition switch	Light indicator lamp ON	On
LIGHT IND	ON	Light indicator lamp OFF	Off
OII W/I	Ignition switch	Oil pressure warning lamp ON	On
OIL W/L	ŎN	Oil pressure warning lamp OFF	Off
NAII.	Ignition switch	Malfunction indicator lamp ON	On
MIL	ON	Malfunction indicator lamp OFF	Off

Α

В

С

D

Е

F

Н

Κ

Ν

## < ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status
CRUISE IND	Ignition switch	CRUISE indicator lamp ON	On
CRUISE IND	ON	CRUISE indicator lamp OFF	Off
O/D OFF IND	Ignition switch	O/D OFF indicator lamp ON	On
O/D OFF IND	ON	O/D OFF indicator lamp OFF	Off
4WD W/L	Ignition switch	AWD warning lamp ON	On
4VVD VV/L	ON	AWD warning lamp OFF	Off
AMD LOCK IND	Ignition switch	AWD LOCK indicator lamp ON	On
4WD LOCK IND	ON	AWD LOCK indicator lamp OFF	Off
FUEL W/L	Ignition switch	Low-fuel warning lamp ON	On
FOEL W/L	ON	Low-fuel warning lamp OFF	Off
WASHER W/L	Ignition switch	Washer warning displayed	On
WASHER W/L	ON	Washer warning not displayed	Off
ALD DDEC W/I	Ignition switch	Low tire pressure lamp ON	On
AIR PRES W/L	ŎN	Low tire pressure lamp OFF	Off
KEY G/Y W/L	Ignition switch	Key warning lamp (green/yellow) ON	On
NEY G/Y W/L	ON	Key warning lamp (green/yellow) OFF	Off
	Ignition switch ON	Engine start information display	B&P I
	Ignition switch ACC	Engine start information display	B&P N
	Ignition switch LOCK	Key ID warning display	ID NG
	Ignition switch LOCK	Steering lock information display	ROTAT
LCD	Ignition switch LOCK	P position warning display	SFT P
LCD	Ignition switch LOCK	Intelligent Key insert information display	INSRT
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT
	Ignition switch ON	Take away warning display	NO KY
	Ignition switch LOCK	Key warning display	OUTKY
	Ignition switch ON	ACC warning display	LK WN
		Shift position indicator P display	Р
		Shift position indicator R display	R
SHIFT IND	Ignition switch ON	Shift position indicator N display	N
	0.1	Shift position indicator D display	D
		Shift position indicator L display	L
O/D OFF SW	Ignition switch	Overdrive control switch ON	On
O/D OFF SW	ŎN	Overdrive control switch OFF	Off
M RANGE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
NM RANGE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

Revision: 2011 November INL-89 2011 MURANO

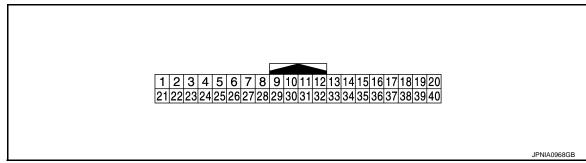
#### < ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status
AT SFT UP SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
AT SFT DWN SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ST SFT UP SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ST SFT DWN SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
PKB SW	Ignition switch	Parking brake switch ON	On
FKB 3W	ON	Parking brake switch OFF	Off
BUCKLE SW	Ignition switch	Seat belt (driver side) not fastened	On
BUCKLE 3W	ON	Seat belt (driver side) fastened	Off
BRAKE OIL SW	Ignition switch	Brake fluid level switch ON	On
BRAKE OIL SW	ON	Brake fluid level switch OFF	Off
DISTANCE [km]	Ignition switch ON	_	Possible driving distance calculated by combination meter
A/C AMP CONN	Ignition switch	Other than the following	On
A/C AIVIF COININ	ON	Receives ambient sensor power signal	Off
ENTER SW	Ignition switch	When $\square$ is pressed	On
	ON	Other than the above	Off
SELECT SW	Ignition switch	When is pressed	On
SELECT SW	ON	Other than the above	Off
OUTSIDE TEMP [°C] or [°F]	Ignition switch ON	_	Equivalent to ambient temperature NOTE: This may not match the indicated value on the information display.
FUEL LOW SIG	Ignition switch	Low fuel warning displayed	On
FUEL LOW SIG	ŎN	Low fuel warning not displayed	Off
DUZZED	Ignition switch	Buzzer ON	On
BUZZER	ON	Buzzer OFF	Off

#### NOTE:

Some items are not available according to vehicle specification.

#### **TERMINAL LAYOUT**



PHYSICAL VALUES

	nal No. color)	Description			Condition	Value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
1 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	-
2 (O)	Ground	IGN signal	Input	Ignition switch ON	_	Battery voltage	_
3 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	_
5	Ground	Illumination control signal	Output	Ignition switch	Lighting switch 1ST     When meter illumination is maximum	(V) 15 10 5 0 10 ms  JPNIA0828GB	_
(SB)	Giodila	inumination control signal	Culput	ON	Lighting switch 1ST     When meter illumination is minimum	(V) 15 10 5 0 10 ms  JPNIA0827GB	
8 (SB)	10 (O)	Trip reset signal	Input	Ignition switch ON	When trip reset switch is pressed.	0 V	-
					Other than the above	5 V	-
10 (O)	Ground	Meter control switch ground	_	Ignition switch ON	_	0 V	-
11 (L)	10 (O)	Enter switch signal	Input	Ignition switch	When 🗖 is pressed.	0 V	
(=)	(0)			ON	Other than the above	5 V	-
12 (R)	10 (O)	Select switch signal	Input	Ignition switch	When is pressed.  Other than the above	0 V 5 V	-
13	, ,			ON			-
(Y*1 or	10 (O)	Illumination control switch signal (+)	Input	Ignition switch ON	When 🕳 is pressed.  Other than the above	0 V 5 V	-
V*2)							-
14 (GR)	10 (O)	Illumination control switch signal (-)	Input	Ignition switch	When 📆 is pressed.	0 V	_
(511)	(0)	5.g. ( )		ON	Other than the above	5 V	_
15	Ground	Air bag signal	Input	Ignition switch	Air bag warning lamp ON	4 V	_
(BR)	Cidana	· ··· dag digital	pat	ON	Air bag warning lamp OFF	0 V	

	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
18 (L)	Ground	Ambient sensor signal	Input	Ignition switch ON	Changes depending to ambient temperature.	(V) 4 3 2 1 0 -10 0 10 20 30 40 [*C] (14) (32) (50) (68) (86) (104) [*F]  JSNIA0014GB
19 (P)	Ground	Ambient sensor power	Input	Ignition switch ON	_	5 V
20 (Y)	Ground	Ambient sensor ground	Input	Ignition switch ON	_	0 V
21 (L)	_	CAN-H	_	_	_	_
22 (P)		CAN-L	_	_	_	_
23 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
24 (W)	Ground	Fuel level sensor signal ground	_	Ignition switch ON	_	0 V
25 (BR)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON Charge warning lamp OFF	2 V 12 V
26				Ignition	Parking brake ON	0 V
(G)	Ground	Parking brake switch signal	Input	switch ON	Parking brake OFF	5 V
27		Brake fluid level switch sig-		Ignition	Brake fluid level is normal	12 V
(V)	Ground	nal	Input	switch ON	Brake fluid level is less than LOW level	0 V
29	Ground	Washer level switch signal	Input	Ignition switch	Washer level switch ON	0 V
(R)	Giodila	washer level switch signal	input	ON	Washer level switch OFF	5 V
30 (P)	Ground	Vehicle speed signal output (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
						50 ms JSNIA0015GB

# < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		_	Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
31 (V)	Ground	Vehicle speed signal output (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
32	Cround	Overdrive control switch	lanut	Ignition	Overdrive control switch pressed.	0 V
(LG)	Ground	signal	Input	switch ON	Overdrive control switch not pressed.	12 V
34 (G)	Ground	Fuel level sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 E 1/4 1/2 3/4 F JPNIA0740ZZ
35		Seat belt buckle switch sig-	1	Ignition	When driver seat belt is fastened.	12 V
(SB)	Ground	nal (driver side)	Input	switch ON	When driver seat belt is unfastened.	0 V
36	Ground	Seat belt buckle switch sig-	Input	Ignition switch	When getting in the passenger seat.     When passenger seat belt is fastened.	12 V
(R)	Ground	nal (passenger side)	Input	ON	When getting in the passenger seat.     When passenger seat belt is unfastened.	0 V

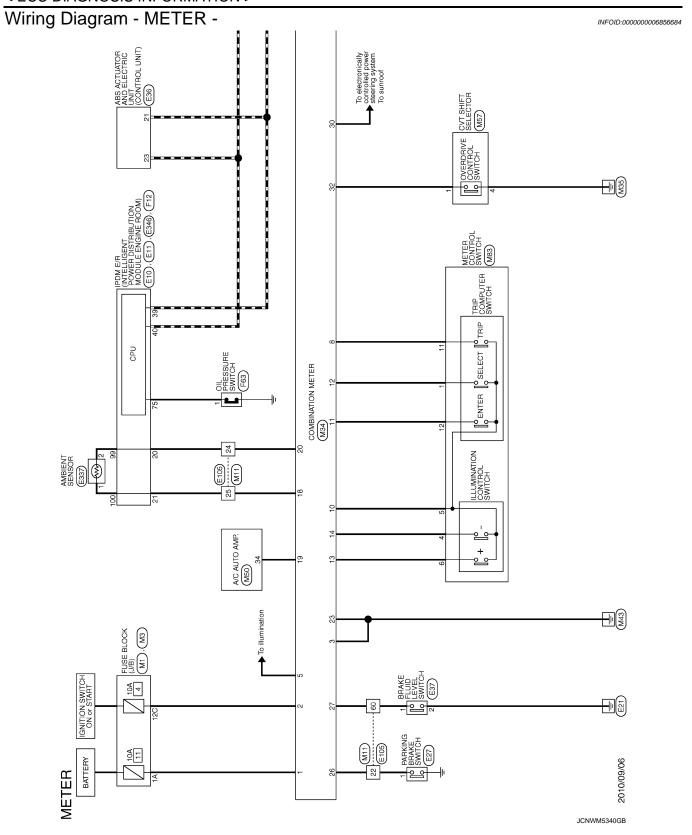
<sup>\*1:</sup> Without automatic drive positioner

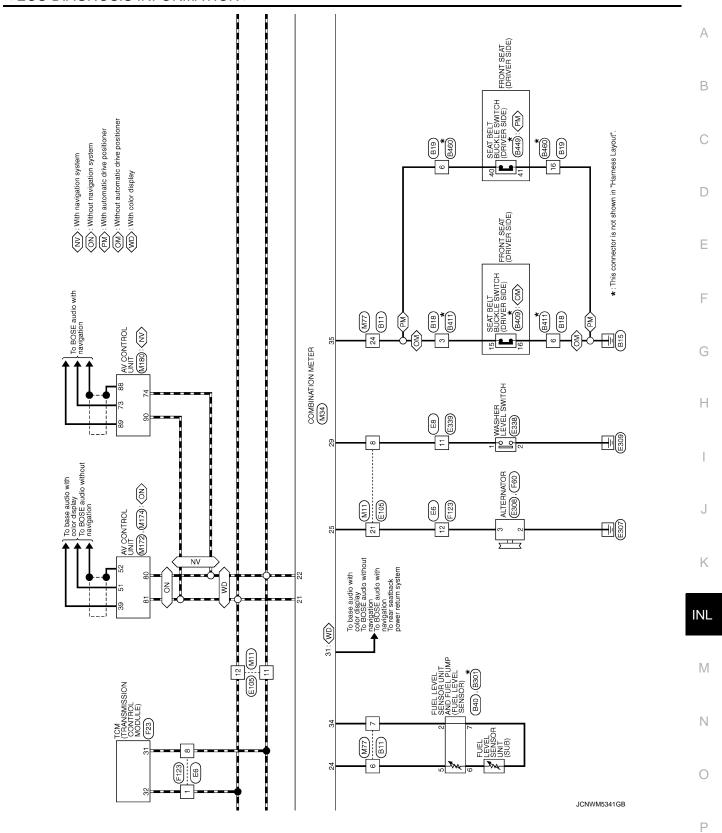
0

Ν

Ρ

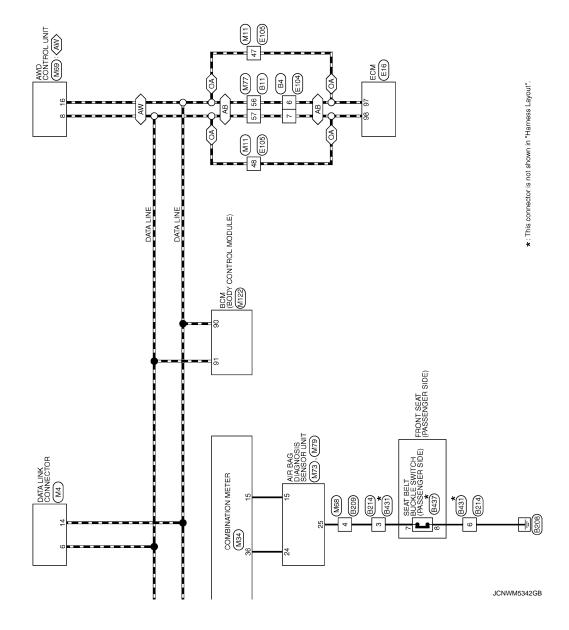
<sup>\*2:</sup> With automatic drive positioner





⟨AW⟩: AWD models
⟨AB⟩: With automatic back door
⟨OA⟩: Without automatic back door





# < ECU DIAGNOSIS INFORMATION >

Œ	Connector Type NS16MW-CS	1 1 0 8 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SHIELD BR/L Y/G Y/L	1 1 1 1 1	68 69 70 71	SHIELD W/R Y/R	1 1 1 1	6 B/W	≥ .	6
H.S.	1 2 3 <b></b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M - 88 88 - 8		73 75 76 77 76 77	- SB - C - R		Connector Type NISIBFW-CS Comector Type NISIBFW-CS  H.S.	NS16	WIRE TO WIRE NS16FW-CS
Terminal Color No. of Wire	Signal Name [Specification]	20 19		1 1 1	8 8 80	i ≥ α -			8 9 10 11 12 13 14 15 16	0 0
2 W	1 1	22	2 ×	11 1	83	BB	1 1			
3		23			84	0 0		Terminal Co	Color of Wire	Signal Name [Specification]
2	1	25	<u>;</u> >	1	98	SB	1		В	
+	1	27		1	87	œ (	1	T		
8 - B	1 1	89 08		1 1	89	5 E	1 1	2 4	š a	
H		31		1	06	>	1	Н	>	
10	-	32		1	91	ڻ ان	1	+	SP.	
+		34		1	92	H (	1	+	a ;	
+		8 %	0 -		93	5 >		ю σ	<u> </u>	
14 BR		37		1	92	BB	1	H	ŋ	
Н		40		ı	96	GR	1	Н	œ	
┥	-	14		ı	97	œ (	1	+	g ,	
		46		1 1	86	20	1 1	E 41	o #	
Connector No.	B11	47		ı				Н		
Connector Name	WIRE TO WIRE	48	SHIELD	1 1	Coppector No	No.	a	Н	W	
Connector Type	TH80MW-CS19	209		_		L	WIDE TO WIDE			
<b>a</b>	0	15		1	Connecto		RE 10 WIRE			
手		52		1 1	Connecto	Type NS	NS06FW-CS			
S.		24 8		1	43					
		92		1	N H					
		96		ı			1 2			
		28	ے د	1 1			3 4 5 6			
Terminal Color	Signal Name [Specification]	28		1						
		09	В	I		ŀ				
1 SHIELD	1	19	R/L	1	Terminal	Color	Signal Name [Specification]			
†	1	29 62	<u> </u>	1	NO.	a Aile				
3 8/1		63	2 >	1	- (	ž a	11 1			
* r.		5 5			3 6	a @				
t	,	<u> </u>		ı	9	á c	1			
1		_				<u> </u> 				
		1								
		IN								
0	M	۷L	K	J	Н	G	E F	D	С	

**INL-97** Revision: 2011 November 2011 MURANO

Connector No. B437  Connector Name SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)  Connector Type A03MW-P  TAS  TAS  TAS  TAS  TAS  TAS  TAS  TA	Terminal   Color   Signal Name [Specification]   No.   of Wire   Signal Name [Specification]   7   W/G   -	u   a   b	Ш	
Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]	S.	- 8 m a	-MW90SW	No. of Wire Signal Name Lapecuroation   1 R R   2 B B   -
Connector No. B214 Connector Name WIRE TO WIRE Connector Type INSOGPW-CS  MAS. 1   1   2   3   4   5   6	Terminal Color   Signal Mame [Specification]   No.   of Wire   Signal Mame [Specification]   2   8   -	etor No. B301  etor Name Fuel Level senson unit	Terminal   Color   Signal Name [Specification]   No.   of Wire	Connector Name SEAT BLUCKLE SWITCH CORVER SIDED Connector Type A03MW-P
METER Connector No. 840 Connector Nor E05FGV-RS  M.S.  (12345)	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]	ctor No	Terminal   Color   Signal Name (Specification)   No. of Wire   Signal Name (Specification)   1   No. of Wire	7 SHELD

JCNWM5344GB

# < ECU DIAGNOSIS INFORMATION >

METER	ď			
Connector No.	No. B460	- m		Connector No. E16
Connector Name	Name WIRE TO WIRE	G G	20 L	Connector Name ECM
Connector Type	Type NS16MW-CS	SB	Н	Connector Type RH24FB-RZ8-L-LH
Œ		14 B =	23 GR – 24 G	
ES		Γ	H	S.
	7 6 5 <b>4</b> 3 2 1 16 15 14 13 12 11 10 9 8	Connector Name WIRE TO WIRE	26 Y – 27 27 27 20 – 20 co	82 86 90 94 98 102 106 83 87 91 95 99 103 107
		Connector Type NS12MBR-CS	₩	[ [84]88[92]96[100]104 [108]112 ]
Terminal	Color Signal Name [Snecification]	香	Н	nal Color Si
			+	of Wire
- 2	x 0.	1 2 3	38 GK	81 W ACCELERATOR PEDAL POSITION SENSOR 1 82 O ACCELERATOR PEDAL POSITION SENSOR 2
8	- O/D	[6 7 8 9 10 11 12]		BR
4	- 7/0		Connector No. E11	84 B SENSOR GROUND
+	M/W	Torminal Color	Gonnector Name [PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	≻ 5 <sup>7</sup>
Н		_	Connector Type TH08FW-NH	GR
H	W/L -	GR	4	0
9	= 7/d	4 SB	The state of the s	91 L SENSOR POWER SUPPLY 02 RD SENSOR CENTRE
+	2 >	0 0		K &
Н		W	41 40	GR
Н	W/R -		46 45 44 43	95 Y FUEL TANK TEMPERATURE SENSOR
+			╢	SR.
$^{+}$	B/R -		1000	97 P CAN COMMUNICATION LINE(CAN-L)
QI	פא	Connector No E10	l erminal Color Signal Name [Specification]	ا ا
		Τ	+	5 E
Connector No.	No. E6	$\neg$	1	SB
Connector Name	Name WIRE TO WIRE	Connector Type TH20FW-CS12-M4-1V	+	> :
Connector Type	Т		42 SB = -	106 SB STOP LAMP SWITCH
4	1		44 W –	В
修		9 10 11 12 13 14 25272829 3031323333 37 38	Н	W EVAP CANIS
HS		3 4 5 6 7 8 1516171819 2021222224 35 36	46 BR –	†
	2 3 -4 4 5 6			111 B ECM GROUND 112 B ECM GROUND
	8 9 10 11 12 13 14 15 16			
		Terminal Color Signal Name [Specification]		
		t		
o N	of Wire Signal Name [Specification]	+		
-	1	Н		
		BR		
4 "	x 8	12 B		
, «	20 >	+		
0 00	. a.	: @		
JC				
NN				
VM!				
534				
5GI				
В				

Revision: 2011 November INL-99 2011 MURANO

INL

Κ

Α

В

С

D

Е

F

Н

IVI

Ν

0

Р

12   Y   74   W   75   BW   75   BW   75   BW   75   BW   77   Comector No.   Connector No.
WIRE TO WIRE TH70MW-CSID-M3 Signal Name (Specification)
Connector Name Connector Name Connector Type 3 Color 11 C C C C C C C C C C C C C C C C C C
Connect Connec
Signal Name   Signal Name   Specification   Signal Name   Specif
No.   E27
ME   EK

JCNWM5346GB

# < ECU DIAGNOSIS INFORMATION >

ktén)	А
HSG3FB HSG3FB Signal Name [Specification] Signal Name [Specification]  Signal Name [Specification]	В
FE0	С
Connector Non  Connector Type  Terminal  Connector Name  Conne	D
MODULE)  47 48  46 46  41 42  41 43	Е
F22	F
	G
Oome 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Н
E446 THI 6FW-NH THI 6FW-NH THI 6FW-NH Signal Name [Specification]	I
Signal Name   Specification	J
Connector No   Connector Name   Connector Name   Connector Name   Connector Type   1   Connector Type   1   Connector Name	K
	INL
Signal Name [Specification]	М
WASHER WASHER TO NISIZEBR TO N	N
Connector Name   Conn	0
	JCNWM5347GB
	Г

Revision: 2011 November INL-101 2011 MURANO

METER Connector No. F123	-	Connector No.			72	BR -	1 1	_
	Connector Name FUSE BLOCK (J/B)	Connector Name		WIRE TO WIRE	74	<b>⊿</b> ≽		_
Connector Type TK16FGY-1V	Connector Type NS12FW-CS	Connector Type	П	TH70FW-CS10-M3	75	Н	1	
		<b>€</b>			76	œ (	1 1	
					. 82	╀	1	
7 6 5 4 3 2 1	5040 302010	Ž.		- Oct   Oct	79	H	-	_
10 11 10	10000				80	Н	_	
	22222222			2 Z	8	_	T.	
					85	≥ (		
	- 0		- 0		88	0	-	_
Color Signal Name [Specification]	Signal Name [Specification]   No.   of Wire	No.	of Wire	Signal Name [Specification]				
-	T	3	۵	1				
G/R	7C B –	5	0	1				
	9	9	ŋ	1				
	GR	8	œ	1				
		Ξ	۵	1				
-	┞	12	_	1				
Y/B -	120 0 -	13	>	1				
BR/W		14	>	1				
- 1		15	œ	1				
	Gonnector No. M4	20	<b>*</b>	1				
1	Т	21	a	1				
	Connector Name DATA LINK CONNECTOR	22	<u> </u>	1				
	Connector Type BD16FW	24	· >	1				
Connector No. M1	1	25		1				
(0) ) > 000 10 10111		28	BR	ı				
Connector Name FUSE BLUCK (J/B)	L	29	Г	1				
Connector Type NS06FW-M2		30	ď	1				
	0 0 7	47	Ь	1				
	2 3 4 5 0	48	٦	=				
brack		49	W	-				
3A 1 2A 1A		50	GR	_				
0 4 7 4 6 4 E 4 4 A	lal	51	FG	1				
8A / Alou(3A 4A	No. of Wire Signal Name Lopecincation.	52	>	1				
	3 FG	53	>	1				
		54	SB	1				
	- B	22	۵	1				
of Wire   Signal Name [Specification]	L	26	SB	ı				
_	- 0 /	09	>	1				
	, .	19	. g	1				
	, 8	63	ś					
	9 4	3 5	,					
	1	63	>	1				
- 1	16 Y =	64	SHIELD	1				
		99	W	_				
		67	œ	I				
		89	Μ	1				
		69	۵					
		70	5	1				
		71	9	1				

JCNWM5348GB

# < ECU DIAGNOSIS INFORMATION >

MAIT   WAIT   WA	А
CAN-L   LOOK SW   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CAN-L   CA	В
MAT3 AIR BAG 11 146 44 11 1 146 44 11 1 1 1 1 1 1 1 1	С
1   B   14   Y   Y   Cornector Name   Connector Name   Connector Name   Connector Type	D
Tuojas (Polificial Polificial Pol	Е
TOL LINIT AND SOL+ AND SOL- GAN-H	F
M868  M869	G
Connector Name   Colorector	Н
We at long   We at	I
Variety   Vari	J
Name   A/C AUTO AMP	K
Connector No.  Connector Name  Connector Name  Terminal Color  10 Color  11 Color  10 Connector Name  Connecto	K
Si   Si   Si   Si   Si   Si   Si   Si	INL
-	M
	N
METER	0
	JCNWM5349GB
	P

**INL-103** Revision: 2011 November 2011 MURANO

METER	띰										
Connector No.	tor No.	M77	47	T	1	66	>	1	Connector No.	lo. M122	
Connec	Connector Name	WIRE TO WIRE	49	8 SHIELD	- Q-				Connector Name		BCM (BODY CONTROL MODULE)
Connec	Connector Type	TH80FW-CS19	5	Н	1	Connec	Connector No.	M79	Connector Type	ype TH40FB-NF	H
Œ			52	> 8	1 1	Connec	Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT	1		
1			53	F		Connec	Connector Type	TK12FY-1V-EX			
Ę	7.7		54	Н	-	4			ź		(
			2	55 G	-	厚			00]	91 90 89 88 87 86 85 84	4 83 82 81 80 79 78 77 76 75 74 73 72
			99	9	1		72		2)		8/ 86 85
			57	+			1	32 28 26 27 25 31			
Termina	Color	L	28	SB CHELD	1 1			39 7 36 35	Terminal	Color	
N	_	Signal Name [Specification]	8 8	T						•	Signal Name [Specification]
-	SHIELD		19	H	-				72	В	ROOM ANT 2-
2	В	-	62	2 W		Terminal	al Color	Simol Name [Sacrification]	73	W	ROOM ANT 2+
3	Μ	-	63	3 0	1	No.	of Wire	olgial Name Lopecinoatorij	74	×	PASSENGER DOOR ANT-
4	œ	1	64	7	1	7	>	ELR RH+	75	LG	PASSENGER DOOR ANT+
2	>	1	65	2	1	8	>	ELR RH-	76	>	DRIVER DOOR ANT-
9	≥	-	9	$\dashv$	1	25	-	BUCKLE SW RH	77	4	DRIVER DOOR ANT+
_	G	1	67	7 R	1	27	≥	INF CURTAIN RH+	80	4	IMMOBI ANTENNA CONTROL
ထ	SHELD		89	┪	1	28	0	INF CURTAIN RH-	81	4	IMMOBI ANTENNA SIGNAL
6	Α	1	9	69 SHIELD	- a	31	>	SIDE INF RH+	82	$\frac{1}{2}$	IGN RELAY (F/B) CONT
10	œ	1	70	ا 0	-	32	>	SIDE INF RH-	83		KEYLESS ENTRY RECEIVER SIGNAL
Ξ	5	_	71	1 R	1	35	~	SIDE SENS RH+	87	Я	COMBI SW INPUT 5
12	В	-	72	2 LG	1	36	5	SIDE SENS RH-	88	GR	COMBI SW INPUT 3
13	0		7	73 Y	1	40	SHIELD	GND	90	Ь	CAN-L
14	۳	-	7	74 R					91	٦	CAN-H
15	SB	-	75	5 P	-				92	ш	KEY SLOT ILL
16	œ	_	7	76 L	1	Connec	Connector No.	M83	93	Ь	ON IND
17	^	-	7	77 BR	-	0	Connector Mana	METER CONTROL	92	٦	ACC RELAY CONT
18	Ь	-	7	79 B	1	000	TOL INSILIE	METER CONTROL SWITCH	96	Y CVT SH	HFT SELECTOR POWER SUPPLY
19	Ь	-	80	M 0	1	Connec	Connector Type	TH12FW-NH	66	^	SHIFT P
20	ΓC	-	18	1 LG	-	4			100	P PAS	PASSENGER DOOR REQUEST SW
21	>	_	82	2 L	-	F			101	W	DRIVER DOOR REQUEST SW
22	0	-	83	$\dashv$	_		7	7	102	Y BLOW	BLOWER FAN MOTOR RELAY CONT
23	ΓG	-	83	3 GR	<ul> <li>[Without automatic drive positioner]</li> </ul>		9	1	103	L KEYLESS	KEYLESS ENTRY RECEIVER POWER SUPPLY
24	SB	-	84	Α	-			1 2 3 4 5 6	107	0	COMBI SW INPUT 1
25	>	1	82	>	T.			7 8 9 10 11 12	108	Ь	COMBI SW INPUT 4
27	>	-	8	4	ı				100	SB	COMBI SW INPUT 2
78	œ	-	87	7 R	1				110	9	HAZARD SW
30	>	-	88	9	-	Terminal	_	Signal Name [Specification]			
31	W	-	88	9 B	-	N	of Wire	Ognal Ivalie Copecinicacion			
32	BR	-	90	0 0	-	-	۳	-			
34	<b>&gt;</b>	-	91	1 G	1	2	0	1			
32	SHIELD		92	2 BR	-	ဗ	Μ	-			
36	9	-	6	93 P	-	4	GR	-			
37	>	-	6	4	ı	9	0	1			
40	0	1	6	$\dashv$	ı	9	>	<ul> <li>[With automatic drive positioner]</li> </ul>			
41	<sub>5</sub>		6	96 SB	ı	9	>	<ul><li>[Without automatic drive positioner]</li></ul>			
45	SB		97	$\dashv$		=	SB	1			
46	ΓC	1	86	9 re	1	12	_	1			

JCNWM5350GB

	AV COMM (H)	OAN-L OAN-H	SW GND	SHIELD	TEL VOICE SIGNAL (+)	TEL VOICE SIGNAL (-)	VEHICLE SPEED SIGNAL (8-PULSE)	PARKING BRAKE [With BOSE system]	PARKING BRAKE [Without BOSE system]	REVERSE	IGNITION	ALIX SOLIMD SIGNAL	AUX SOUND SIGNAL GND	Alix Solind Signal RH (+)			M180	AV CONTROL LINIT	A COLLINS OF	TH32FW-NH				77 77 77 77 77 77 77 77 77 77 77 77 77	80 81 82 83 84 85 86 87 88 80			3	oignal Name [opecification]	PARKING BRAKE	COMPOSITE IMAGE SIGNAL GND	COMPOSITE IMAGE SIGNAL	SHIELD	MICROPHONE VCC	CAN-I /DISF/	AV COMM (1)	AV COMM (1)	ILLUMINATION SIGNAL	IGNITION	REVERSE	VEHICLE SPEED SIGNAL (8-PULSE)	SHIELD	MICROPHONE SIGNAL	SHIELD	COMM (DISP->CONT)	CAN-H	AV COMM (H)	AV COMM (H)
	SB	۵ -	۸ ۲	SHIELD	ď	٦	>	P.	9	SB	g ;	4 3	s @				. No.	Name .	Name of	. Type					20 22 02	2/0///		Color	of Wire	FC	BR	GR	SHIELD	8 0	۵	. 5	<u>د</u>	ď	ŋ	SB	>	SHIELD	W	SHIELD	g	_	SB	SB
	79	81 80	83	98	87	88	92	93	93	94	92	98	103	101			Connector No.	Coppector Name		Connector Type	ą	厚	\ 			_		Terminal	No.	69	67	88	17	27	2 2	75	9/2	92	08	18	82	83	87	88	88	06	91	95
}	lo. M172	lame AV CONTROL UNIT	VD6 TH24FW-NH	1		<u> </u>	20 20 44 40 47 47	20 39 40 41 42 43 44 43 40	48 48 50 5 1 5Z 53 54 55 50 5 1 5 0 5 8		ļ	Color Signal Name [Specification]	O SIGNAL VGC	SIGNAL		L COMM (DISP->CONT)	W RGB AREA (YS) SIGNAL	SHIELD	B RGB SYNC	G RGB (R:RED) SIGNAL	_	+	S	COMP		BK INVEKTER GND	COMM (C	SHIELD	SHIELD	SHIELD SHIELD		ſ	lo. M174	lame AV CONTROL UNIT	TUSSEM-NIL	1				82 83 84 85 86 87 88 89 90	2 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107			Color Signal Name [Specification]	of Wire			LG AV COMM (L)
METER	Connector No.	Connector Name	Connector Type	[	修	N.			_	J	Ŀ	No No	$^{+}$	37	88	39	40	H	42	43	4	42	46	47	48	84 03	51	H	Н	S 89			Connector No.	Connector Name	Coppertor Type		Œ	Ę	4	7	0	J		lar	┪	9/	77	78

1 V I

Κ

INL

Α

В

D

Е

Ν

0

INFOID:0000000006856685

JCNWM5351GB

# Fail-Safe

#### FAIL-SAFE

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning.

# < ECU DIAGNOSIS INFORMATION >

	Function	Specifications					
Speedometer							
Tachometer		Reset to zero by suspending communication.					
Engine coolant temperatu	re gauge						
Illumination control		When suspending communication, changes to nighttime mode.					
	Door open warning						
	Parking brake release warning	The display turns off by even and in a communication					
	Low tire pressure warning	The display turns off by suspending communication.					
	Fuel filler cap warning						
Information display	Instantaneous fuel warning	When reception time of an abnormal signal is 2 seconds or					
	Average fuel consumption	less, the last received datum is used for calculation to indicate the result.					
	Average vehicle speed	When reception time of an abnormal signal is more than two					
	Travel distance	seconds, the last result calculated during normal condition is indicated.					
Buzzer		The buzzer turns off by suspending communication.					
	ABS warning lamp						
	SLIP indicator lamp						
	Brake warning lamp	The lamp turns on by suspending communication.					
	AWD warning lamp						
	Malfunction indicator lamp						
	Low tire pressure warning lamp	The lamp turns ON after flashing for 1 minute.					
	High beam indicator lamp						
Warning lamp/indicator lamp	Turn signal indicator lamp						
	Light indicator lamp						
	Oil pressure warning lamp						
	CRUISE indicator lamp	The lamp turns off by suspending communication.					
	O/D OFF indicator lamp						
	VDC OFF indicator lamp						
	AWD LOCK indicator lamp						
	Key warning lamp						

DTC Index

Display contents of CONSULT-III	Diagnostic item is detected when	Refer to
CAN COMM CIRCUIT [U1000]	When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-39, "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	When detecting error during the initial diagnosis of the CAN controller of combination meter.	MWI-40, "Diagnosis Procedure"
VEHICLE SPEED [B2205]	The abnormal vehicle speed signal is input from the ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-41, "Diagnosis Procedure"

# < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT-III	Diagnostic item is detected when						
ENGINE SPEED [B2267]	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-42, "Diagnosis Procedure"					
WATER TEMP [B2268]	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-43, "Diagnosis Procedure"					

Α

В

С

D

Е

F

G

Н

1

J

Κ

INL

M

Ν

0

P

## **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 the following lamps are not turned ON.  Map lamp  Personal lamp  Luggage room lamp  Step lamp  Vanity mirror lamp	Harness between BCM and each interior room lamp     BCM	Interior room lamp power supply circuit Refer to INL-19.				
Interior room lamp is not turned ON even though the door is open.  (It turns ON when turning the interior room	Harness between BCM and each door switch	Door switch circuit Refer to <u>DLK-97</u> .				
lamp ON.)  Interior room lamp does not turn OFF even though the door is closed.	Harness between BCM and each interior room lamp     BCM	Interior room lamp control circuit Refer to INL-21.				
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to <a href="INL-15">INL-15</a> .				
Step lamps (driver side and passenger side) are not turned ON. (Map lamp and personal lamp are turned ON.)	Harness between BCM and each step lamp	Step lamp circuit				
Step lamps (driver side and passenger side) are not turned OFF. (Map lamp and personal lamp are turned OFF.)	BCM	Refer to INL-23.				
Push-button ignition switch illumination does not illuminate.	Harness between BCM and push- button ignition switch     BCM	Push-button ignition switch illumination circuit Refer to INL-25.				
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to INL-16.				

## **PRECAUTION**

## PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
  ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
  a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
  serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

INL

Α

В

Е

Ν

Revision: 2011 November INL-109 2011 MURANO

## **PRECAUTIONS**

## < PRECAUTION >

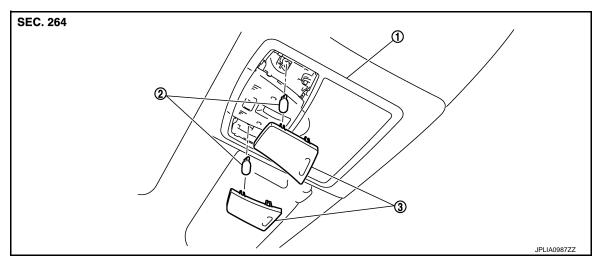
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

# REMOVAL AND INSTALLATION

## MAP LAMP

**Exploded View** 



1. Map lamp assembly

2. Bulb

3. Lens

#### Removal and Installation

Refer to <u>INT-26</u>, "NORMAL ROOF: Exploded View" (Normal roof) or <u>INT-30</u>, "SUNROOF: Exploded View" (With sunroof) for the map lamp assembly installation/removal.

Replacement

#### **CAUTION:**

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- · Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### MAP LAMP BULB

- 1. Insert any appropriate tool into the gap between the lens. Remove the lens.
- Remove the bulb.

INL

K

Α

В

D

Е

F

Н

INFOID:0000000006262847

INFOID:0000000006262848

M

Ν

C

## **MOOD LAMP**

#### < REMOVAL AND INSTALLATION >

**MOOD LAMP** 

MAP LAMP

MAP LAMP: Replacement

INFOID:0000000006262850

MAP LAMP

Mood lamp (map lamp) is integrated into the map lamp assembly. Refer to INL-111, "Exploded View".

FRONT DOOR GRIP

FRONT DOOR GRIP: Replacement

INFOID:0000000006262851

FRONT DOOR

Mood lamp (front door grip) is integrated into the front door trim. Refer to <a href="INT-12">INT-12</a>, "FRONT DOOR FINISHER: Exploded View".

**ROOF CENTER** 

**ROOF CENTER: Replacement** 

INFOID:0000000006262852

**ROOF CENTER** 

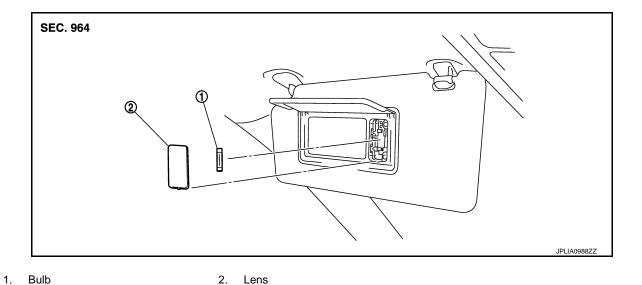
Mood lamp (roof center) is integrated into the headlining.

• Refer to <u>INT-26</u>, "NORMAL ROOF: Exploded View" (Normal roof).

• Refer to INT-30, "SUNROOF: Exploded View" (With sunroof).

## VANITY MIRROR LAMP

Exploded View



Replacement

#### **CAUTION:**

• Disconnect the battery negative terminal or remove the fuse.

- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### VANITY MIRROR LAMP BULB

- 1. Insert any appropriate tool into the gap between the lens. Remove the lens.
- 2. Remove the bulb.

INL

Α

В

D

Е

F

Н

J

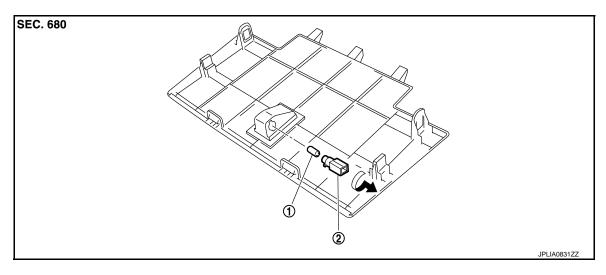
K

Ν

0

## **CONSOLE POCKET LAMP**

Exploded View



Bulb
 Bulb socket

Replacement INFOID:00000000002622856

#### **CAUTION:**

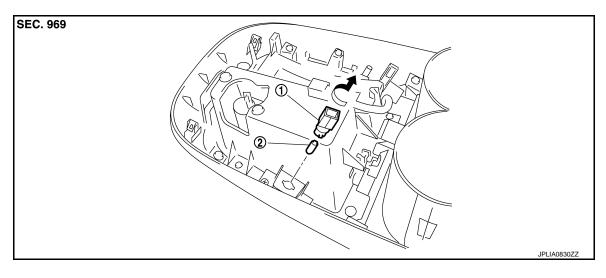
- Disconnect the battery negative terminal or remove the fuse.
- · Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- · Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### CONSOLE POCKET LAMP BULB

- 1. Remove the cluster lid C (lower). Refer to IP-12, "Exploded View".
- 2. Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb.

## **ASHTRAY ILLUMINATION**

Exploded View



I. Bulb socket 2. Bulb

Replacement

#### **CAUTION:**

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### **ASHTRAY ILLUMINATION BULB**

- 1. Remove the console finisher assembly. Refer to IP-20, "Exploded View".
- 2. Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb.

INL

Α

В

D

Е

F

Н

J

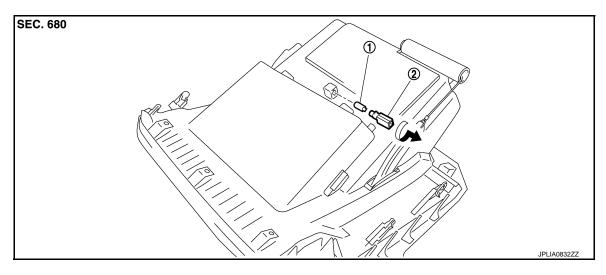
K

Ν

O

## **GLOVE BOX LAMP**

Exploded View



. Bulb 2. Bulb socket

Replacement INFOID:00000000002622860

#### **CAUTION:**

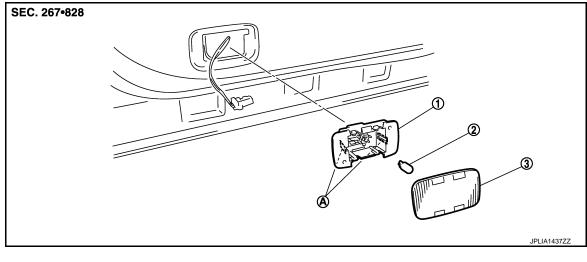
- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- · Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### **GLOVE BOX LAMP BULB**

- 1. Remove the glove box assembly. Refer to IP-12, "Exploded View".
- 2. Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb.

## STEP LAMP

Exploded View



- Step lamp case
- A Metal clip

2. Bulb

3. Lens

INFOID:0000000006262862

#### Removal and Installation

#### **CAUTION:**

Disconnect the battery negative terminal or remove the fuse.

#### **REMOVAL**

- 1. Insert any appropriate tool into the gap between the step lamp and the door trim. Remove the step lamp.
- 2. Disconnect the connector.

#### **INSTALLATION**

Install in the reverse order of removal.

Replacement

#### **CAUTION:**

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### STEP LAMP BULB

- 1. Insert any appropriate tool into the gap between the lens. Remove the lens.
- Remove the bulb.

INL

K

Α

В

D

Е

M

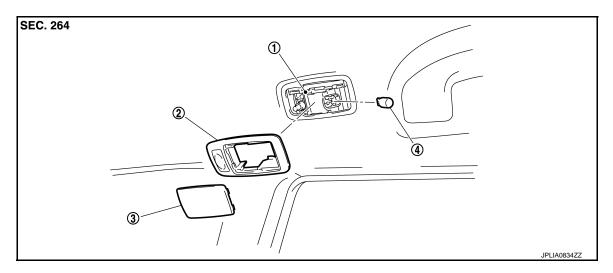
Ν

D

Revision: 2011 November INL-117 2011 MURANO

## PERSONAL LAMP

Exploded View



- 1. Personal lamp case
- 2. Personal lamp finisher
- 3. Lens

4. Bulb

#### NOTE:

Replace the personal lamp case as a set (right and left). After removing the headlining assembly, remove the personal lamp case. Refer to <a href="INT-26">INT-26</a>, "NORMAL ROOF: Exploded View" (Normal roof) or <a href="INT-30">INT-30</a>, "SUNROOF: Exploded View" (With sunroof).

## Removal and Installation

INFOID:0000000006262865

#### **CAUTION:**

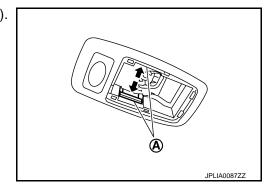
Disconnect the battery negative terminal or remove the fuse.

#### **REMOVAL**

- Remove the headlining assembly. Refer to <u>INT-26, "NORMAL ROOF: Exploded View"</u> (Normal roof) or <u>INT-30, "SUNROOF: Exploded View"</u> (With sunroof).
- 2. Insert any appropriate tool into the gap between the lens. Remove the lens.
- Press the both side pawls (A) to the arrow direction (←).
   Remove the personal lamp finisher.
- Remove the personal lamp case from the headlining assembly.

#### NOTE:

Replace the personal lamp case as a set (right and left).



#### INSTALLATION

Install in the reverse order of removal.

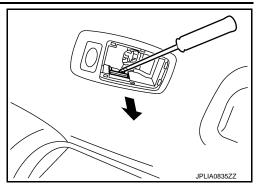
#### NOTE:

The following is easier to install the personal lamp finisher.

## **PERSONAL LAMP**

#### < REMOVAL AND INSTALLATION >

Press the personal lamp finisher to the headlining. Pull the personal lamp case pawl to the arrow direction (←) with any appropriate tool.



Replacement

INFOID:0000000006262866

#### **CAUTION:**

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### PERSONAL LAMP BULB

- 1. Insert any appropriate tool into the gap between the lens. Remove the lens.
- Remove the bulb.

Н

Α

В

D

Е

J

Κ

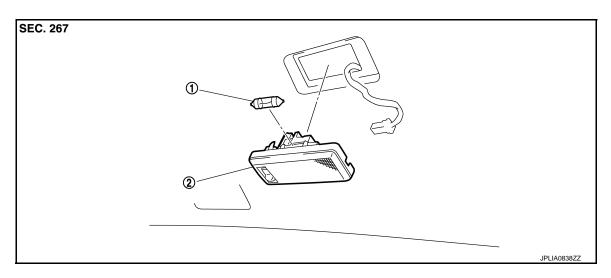
INL

M

Ν

## LUGGAGE ROOM LAMP

Exploded View



1. Bulb

2. Luggage room lamp assembly

#### Removal and Installation

INFOID:0000000006262868

#### **CAUTION:**

Disconnect the battery negative terminal or remove the fuse.

#### **REMOVAL**

- Insert any appropriate tool into the gap between the luggage room lamp assembly and back door finisher inner. Remove the luggage room lamp assembly.
- 2. Disconnect the connector.

#### INSTALLATION

Install in the reverse order of removal.

Replacement

#### **CAUTION:**

- Disconnect the battery negative terminal or remove the fuse.
- · Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### LUGGAGE ROOM LAMP BULB

- Remove the luggage room lamp assembly.
- 2. Remove the bulb.

## **SERVICE DATA AND SPECIFICATIONS (SDS)**

< SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS)

# **Bulb Specifications**

Item		Туре	Wattage (W)
Push-button ignition switch illumination		LED	_
Map lamp		Wedge	8
Mood lamp	Map lamp	LED	_
	Front door grip	LED	_
	Roof center	LED	_
Vanity mirror lamp		_	2
Console pocket lamp		Wedge	1.4
Ashtray illumination		Wedge	1.4
Glove box lamp		Wedge	1.4
Step lamp		Wedge	2.7
Personal lamp		Wedge	8
Luggage room lamp		_	8

Н

Α

В

C

D

Е

F

G

INFOID:0000000006262870

Κ

INL

M

N

0