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2010 Murano

## **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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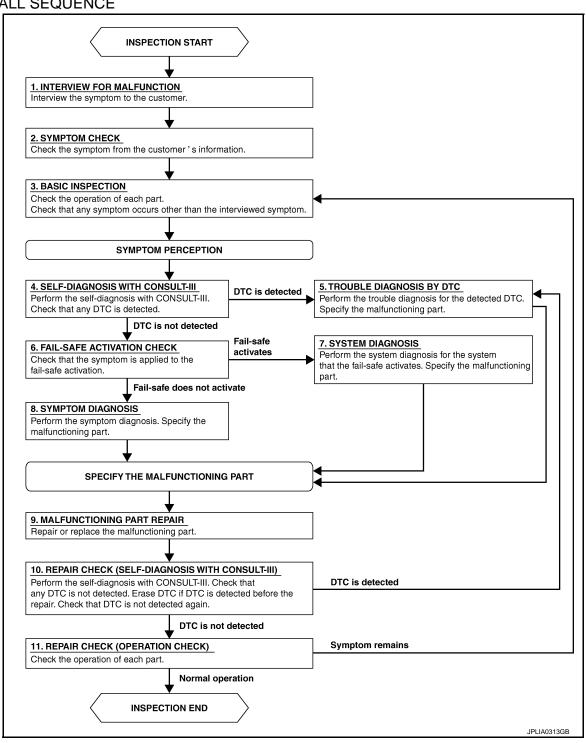
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### **OVERALL SEQUENCE**



#### **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?

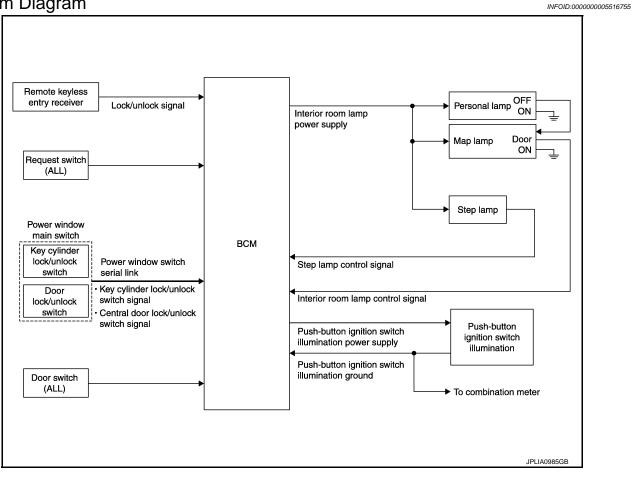
YES >> INSPECTION END

NO >> GO TO 3.

## SYSTEM DESCRIPTION

## INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



## System Description

INFOID:0000000005516756

#### 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

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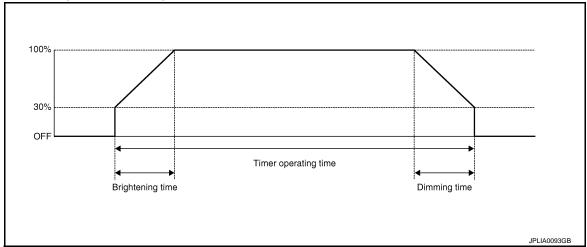
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#### < SYSTEM DESCRIPTION >

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 <u>INL-15, "INT LAMP : CONSULT-III Function (BCM - INT LAMP)"</u>.

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

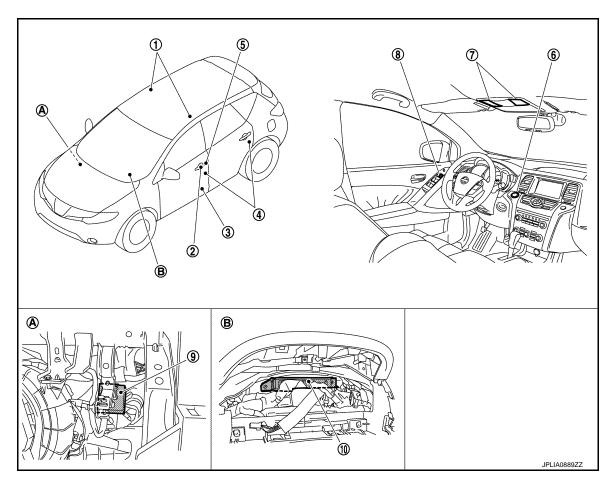
#### < SYSTEM DESCRIPTION >

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 → LOCK.

### **Component Parts Location**

INFOID:0000000005516757



- 1. Personal lamp
- 4. Door switch
- 7. Map lamp
- 10. BCM
- A. Over the glove box
- 2. Request switch
- 5. Key cylinder switch
- 8. Door lock switch
  - Behind the combination meter
- 3. Step lamp
- 6. Push-button ignition switch illumination
- 9. Remote keyless entry receiver

## Component Description

INFOID:0000000005516758

Part	Description
BCM	<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.

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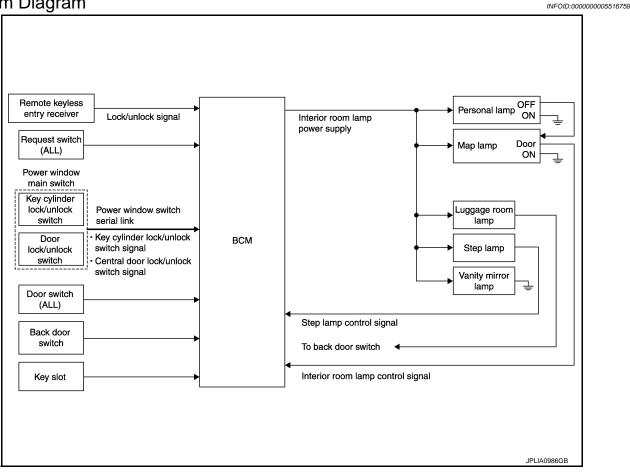
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### INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram



## System Description

**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.

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#### 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:

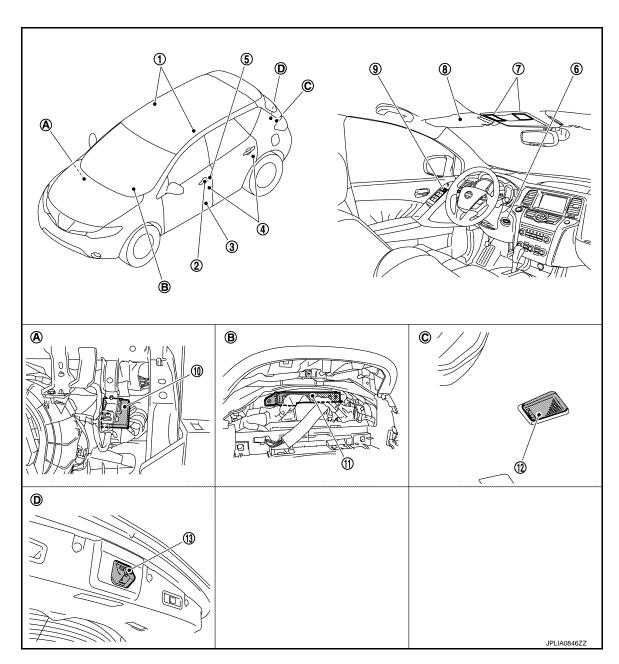
#### INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

#### < 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**

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- 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
- 5. 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

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

## < SYSTEM DESCRIPTION >

## Component Description

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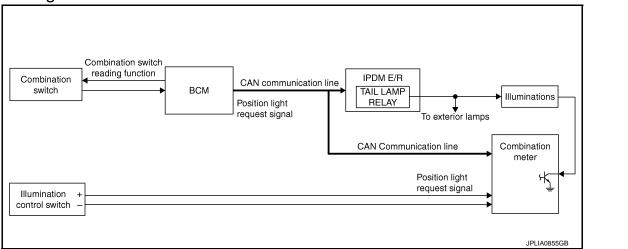
Part	Description	
BCM	Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply.	
Remote keyless entry receiver	Receives the lock/unlock signal from keyfob.     Transmits the lock/unlock signal to BCM.	
<ul><li>Request switch</li><li>Key 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

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#### **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).

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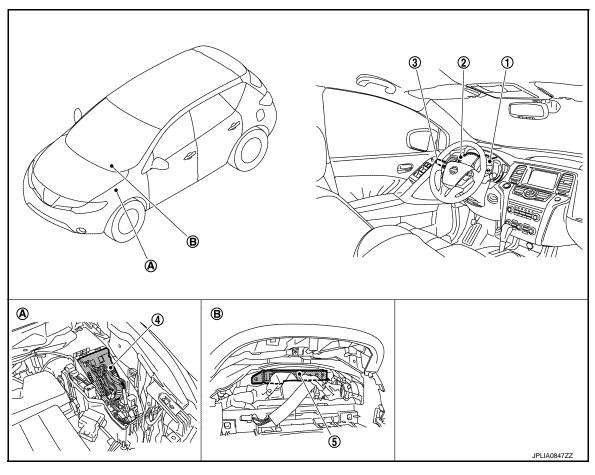
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## **Component Parts Location**

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- 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:0000000005516766

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-9, "System Description".

#### < SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

**COMMON ITEM** 

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

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#### APPLICATION ITEM

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

Diagnosis mode	Function Description		
Work Support	Changes the setting for each system function.		
Self 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	ВСМ	×		
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)

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### < 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 "CRANKIN	
	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>		

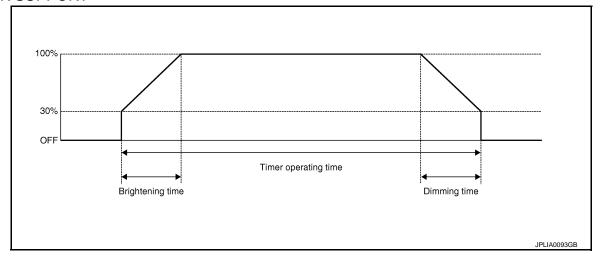
**INT LAMP** 

### < SYSTEM DESCRIPTION >

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

INFOID:0000000005516768

### **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-UNLOK INTOON	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		Interior ro only.	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

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#### < 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	On	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 LAWII TEOT	Off	Stops the step lamp control signal to turn step lamp OFF.		
LUGGAGE LAMP TEST	On	NOTE:		
LOGGAGE LAWIF TEST	Off	The item is displayed, but cannot be tested.		

## **BATTERY SAVER**

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

INFOID:0000000005516769

## WORK SUPPORT

Service item	Setting item	Setting			
BATTERY SAVER SET	On*	With the e	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			
ROOM LAMP TIMER SET	MODE 1*	30 min. Sets the interior room lamp battery saver timer op			
NOON LAWF THILL SET	MODE 2	60 min.	time.		

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

#### **DATA MONITOR**

## < SYSTEM DESCRIPTION >

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.			
	On	Outputs the interior room lamp power supply to turn interior room lamp ON.*		

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

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#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

## POWER SUPPLY AND GROUND CIRCUIT

**BCM** 

BCM : Diagnosis Procedure

INFOID:0000000005516770

### 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			
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:0000000005516771

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 <a href="INL-19">INL-19</a>, "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.

**INL-19** 

	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.
- 2. 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)

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#### 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	Existed
		Vanity mirror lamp (passenger side)	R10	2	
M119	4	Luggage room lamp (RH)	D156	2	
		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	BCM		Continuity	
Connector	Connector Terminal		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:0000000005516774

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:0000000005516775

#### **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

Off : Interior room lamp gradual dimming

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	Ciouna	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.

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#### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

BCM		Map lam			
Connec- tor	Terminal	Connec	tor	Terminal	Continuity
M119	19	Map lamp	R19	2	Existed
101119	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:000000005516777

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

Component Function Check

## INFOID:0000000005516778

#### **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. 2.
- 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
WITT9	,	Passen- ger side	D51	2	LXISIEU

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### 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 >

Description

### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

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.

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

### 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.

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### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

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

#### Is the measurement value normal?

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

## 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

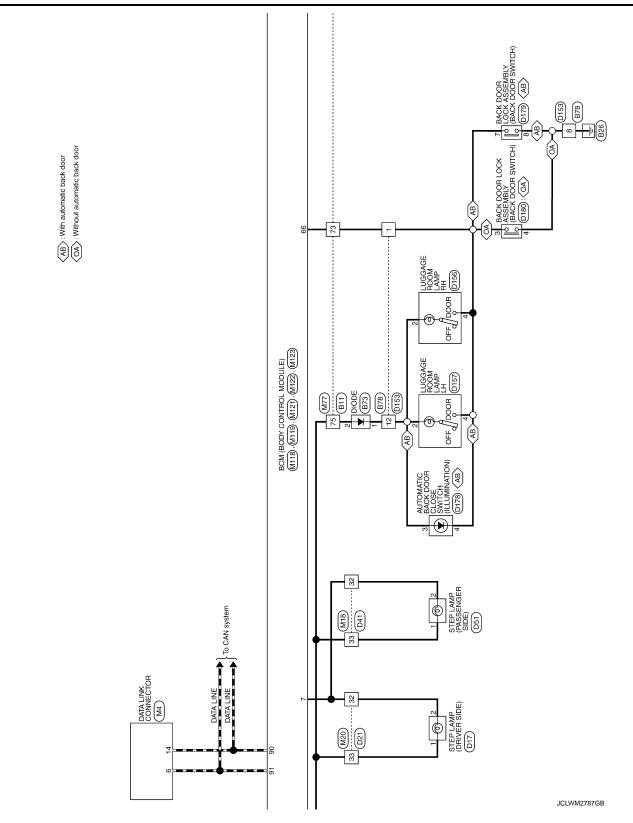
#### Does the continuity exist?

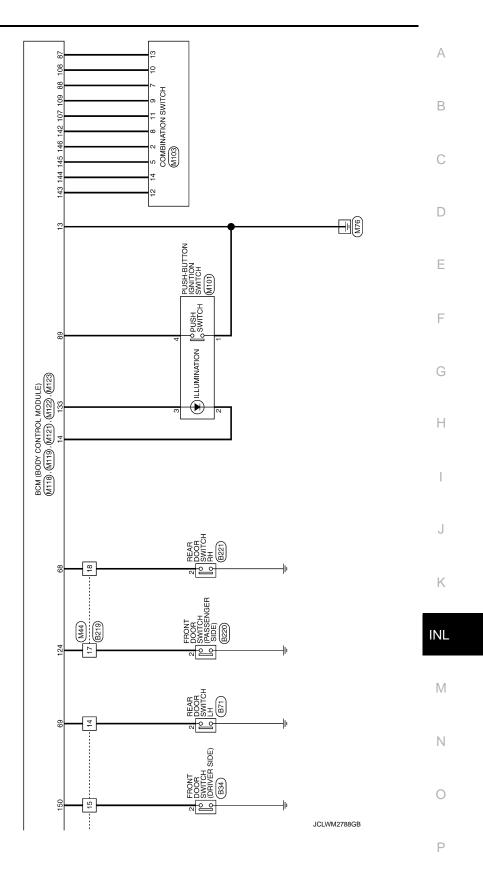
YES >> Repair the harness or the connector.

NO >> Replace BCM.

#### INTERIOR ROOM LAMP CONTROL SYSTEM Α Wiring Diagram - INTERIOR ROOM LAMP -INFOID:0000000005516783 FRONT POWER WINDOW SWITCH (PASSENGER SIDE) D45 В M18 C DOOR LOCK AND UNLOCK SWITCH M35 D M43 POWER WINDOW MAIN SWITCH (D5), (D6) Е (M20 D21 DOOR LOCK AND UNLOCK SWITCH VANITY MIRROR LAMP (DRIVER SIDE) F - Ti-(9) PERSONAL LAMP (R21) Н UNLOCK BETWEEN FULL STROKE AND N FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) (BOOR KEY CYLINDER SWITCH) BCM (BODY CONTROL MODULE) (M118), (M128), (M123) 퓬 POOOR NO O BETWEEN FULL STROKE AND N Ξ J LOCK No o MAP LAMP (R19) K DOOR FUSE BLOCK (J/B) (M1) INL KEY SLOT NO O - Ti-(9) 10A M Ö INTERIOR ROOM LAMP MZ3 R1 10A Ν 0 82 M11 2008/09/23 BATTERY Р

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### < DTC/CIRCUIT DIAGNOSIS >

IN ERIOR ROOM LAMP					
Connector No. B11	44	Н	GR -	nal Color	Signal Name [Specification]
Connector Name WIRE TO WIRE	45	97 F	- u	No. of Wire	
Connector Type TH80MW-CS19	47			2	ı
	48	GR -[With rear view camera and telephone] BR -[With rear view camera without telephone]			
	49	Н	b34	Connector No. B78	
	20	SHIELD - Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)	Connector Name WIRE TO WIRE	
S   S   S   S   S   S   S   S   S   S	52		pe A03FW	Connector Type NS16MW-CS	
	53			q	
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erminal Golor   Signal Name [Specification]   No.   of Wire	22	H.S.	<u> </u>	HS.	4 5 5 7
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4 R/W -	09	-	1		
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12 W/L	69		Т	+	1
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+	71			+	1
- SB - SI	72	- A	K	+	1
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H	98	-			
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37 LG –	91	- D			
40 Y –	92	BR -	7		
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42 SB –	94	_ ^			
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Signal Name [Specification]	В
Color of Wire Sign	С
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POWER WINDOW MAIN SWITCH NSOSPW-CS Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  TED LAMP (DRIVER SIDE)  COZEPW	F
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ROOM LAMP   B219	INL M
Name   WILD   Name	Ν
INTERIOR ROOM LAMP	0
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INTE	RIOR	INTERIOR ROOM LAMP					
Connector No.	r No.	D21	53		-[With automatic drive positioner]	Connector No. D45	Connector No. D153
Connector Name		WIRE TO WIRE	53	P -[With	-[Without automatic drive positioner]	Connector Name FRONT POWER WINDOW SWITCH (PASSENGER SIDE)	Connector Name WIRE TO WIRE
Connecto	r Type	Connector Type TH40FW-CS15	54	H	-[Without automatic drive positioner]	Connector Type NS16FW-CS	Connector Type NS16FW-CS
45			55	4	-[With automatic drive positioner]		
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	0000		Connector Name	Name WIRE TO WIRE	VIRE	2	
	L		Connector Type	Type TH40FW-CS15	\$15	L	. L
Terminal No.	Color of Wire	Signal Name [Specification]	E			Terminal Golor   Signal Name [Specification]   No.   of Wire	Terminal Color Signal Name [Specification] No. of Wire
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## < DTC/CIRCUIT DIAGNOSIS >

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Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	В
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ROOM LAMP DIST LUGGAGE ROOM LAMP LH CJOHPW  Signal Name [Specification]	N
	IN
INTERIOR ROOM LAMP   Connector Name   LUGGAGE ROOM LAMP   Connector Name   LUGGAGE ROOM LAMP   Connector Name   Color   Color	_
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Connector No.	or No.	MII	49	٣	-	32	λ	-		45	Ь	-	
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手			72	监	-	L		•		52	۳	-[Without automatic drive positioner]	
SH.			73	_	1	Conn	Connector No.	M20	_ _	53	_	-[With automatic drive positioner]	
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			75	æ	_			┑	7	54	LG	-[With automatic drive positioner]	
		2 2 2 3 3 3 4 2 2 2 3 4 2 2 2 3 4 2 2 2 3 4 2 2 2 2	92	œ	_	Conn	Connector Type	TH40MW-CS15	7	54	5	-[Without automatic drive positioner]	
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24	>					5	┞	1	T	6	٥	-[With telephone and pavigation system]	
į							ł		T	t	+	Active to the control of the control	
07	4	'	ļ	L		= ;	+	'	т Т	7 .	t	-[with telephone without havigation system]	
50	4	1	ermina		Signal Name [Specification]	14	+	I	_ _	†	a	1	
27	0	-	No.	of Wire		15	GR	=	7	4 S	SHIELD	-	
28	盎	1	-	g	•	16	J L	_		9	œ	1	
59	1	1	2	۸	1	17	٨ .	=		7	Υ	1	
30	~	1	4	>	-	18	*	1	<u> </u>	8	<b>\</b>	1	
47	۵		LC.	"	-[With BOSE system]	10	H	,	T	6	α	1	
40	-		u	8		Ç.	9		T	ç	>	1	
2	1		}	1	$\downarrow$	1	+		т Т	2	- -		
48	۸	1	۵	35	-	24	1	1	_ _	1	1	1	
20	S.	1	_	g	1	25	>	1	1	12	_	î	
19	LG	1	8	8	-	26	W	-		13	SB	_	
52	>	ì	91	Μ	1	29	E E			15	9	ı	
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5.4	g	1	0	3		7	87	1	, T				
5	3 6		2   5	1		1	╀		T				
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26	SB	1	20	SB	1	ĕ	$\dashv$	1	<b>-</b>				
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19	S.	i	25	>	1	35	<u>د</u>	1					
62	0	1	26	۵	,	4	L	1	Г				
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3	. CHIELD		30	٥		ľ	╀		Т				
± 3	anie D		8 2	2 >		₽ ₹	>		Т				
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## < DTC/CIRCUIT DIAGNOSIS >

	А
THIZEW-NH	В
MW99 MW01	С
Connector No.  Connector No.  Connector Type  S. S	D
positioner/ rer side power seat] rer side power seat]	Е
	F
SHED SHED SHED SHED SHED SHED SHED SHED	G
99	Н
	I
	J
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2	
MIRE NH  10 9 8 7 6 5 4 3 2 1 1  10 9 8 7 6 5 4 3 2 1 1  26 5 5 2 1 20 19 18 17  26 5 5 1 2 2 1 20 19 18 17  26 5 5 1 2 2 1 20 19 18 17  27 2 1 20 19 18 17  28 2 1 20 19 18 17  28 2 1 20 19 18 17  28 2 1 20 19 18 17  29 2 1 20 19 18 17  20 2 1 20 19 18 17  20 2 1 20 19 18 17  20 2 1 20 19 18 17  20 2 1 20 19 18 17  20 2 1 20 19 18 17  20 2 1 20 19 18 17  20 2 1 20 19 18 17  20 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	INL M
Signal Name (Sp. Signal	N
INTERIOR ROOM LAMP   Connector Name   WIRE TO WIRE   Connector Name   WIRE TO WIRE   Connector Type   TH32FW-NH     Connector Type   TH80FW-CS19     Connector No   Connector Type   TH80FW-CS19     Connector T	0
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INTERIOR ROOM LAMP		Γ						
Connector No. M103	Connector No.	M119	99	\ '	BACK DOOR SW	Connector No.	. M123	
Connector Name COMBINATION SWITCH	Connector Name	me BCM (BODY CONTROL MODULE)	69	5 w	BACK DOOR OPENER SW	Connector Name	me BCM (BODY CONTROL MODULE)	
Connector Type TH16FW-NH	Connector Type	pe NS16FW-CS	69	۳	REAR LH DOOR SW	Connector Type	pe TH40FG-NH	
	Œ					13		
	S H		Connector No.	or No.	M122	N T		
1 2 3 4 5 6 7 8 9 10 11 12 13 14		4     5     6     7     8     9     10       11     12     13     14     15     16     17     18     19	Connec	Connector Name Connector Type	BCM (BODY CONTROL MODULE) TH40FB-NH	151	SENTENCE NOT TOO TOO TOO TOO TOO TOO TOO TOO TOO	
			1					
Terminal Color Signal Name [Specification]	Terminal C No. of	Color Signal Name [Specification]	H.S.			Terminal C No. of	Golor Signal Name [Specification]	
1 G RR	4	P INTERIOR ROOM LAMP POWER SUPPLY		91 90 89 8	8 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72	112	R RAIN SENSOR SERIAL LINK	
NO Y	2	PASSEN		11 800 01 11 111	8107/106/105/104/103/102/10/100/193/198/197/196/195/194/193/192/	$\dashv$	ō	
3 O FR	٥ م	W STEP LAMP OUTPUT				116	GR FUSE CHECK	
>	+	G DRIVER DOOR FILE LID LINI OCK OUTPUT	Terminal	Color		119	W DR DOOR LIN OCK SENSOR	
. @	+	T	No.	_	Signal Name [Specification]	121	L	
Ě	H	LG BAT (FUSE)	72	В	ROOM ANT2-	123	G IGN F/B	
8 L OUTPUT 5	13	B GND	73	W	ROOM ANT2+	124	R PASSENGER DOOR SW	
9 SB INPUT 2	14	O PUSH-BUTTON IGNITION SW ILL GND	74	Υ	PASSENGER DOOR ANT-	_	BR REAR DEFOGGER SW	
10 P INPUT 4	15	L ACC IND	75	LG	PASSENGER DOOR ANT+	132	G POWER WINDOW SW COMM	
0	Н		9/	^	DRIVER DOOR ANT-	133	W PUSH-BUTTON IGNITION SW ILL POWER	
12 W OUTPUT 1	18	BR TURN SIGNAL LH	77	Ь	DRIVER DOOR ANT+	134		
13 R INPUT 5	19	Y ROOM LAMP TIMER CONTROL	80	SB	IMMOBI ANTENNA CONTROL	137	Н	
14 P OUTPUT 2			81	0	IMMOBI ANTENNA SIGNAL	138	V RECEIVER/SENSOR POWER SUPPLY	
			82	BR	IGN RELAY (F/B) CONT	+	TIRE PRE	
ı	Connector No.	v. M121	83	Ь	KEYLESS ENTRY RECEIVER SIGNAL	140	GR SHIFT N/P	
Connector No. M118	Connector Name	BCM (BODY CONTROL MODILLE)	87	۳	COMBI SW INPUT 5	141	O SECURITY INDICATOR OUTPUT	
Connector Name   BCM (BODY CONTROL MODILE)		╗	88	GR	COMBI SW INPUT 3	142	L COMBI SW OUTPUT 5	
	Connector Type	pe TH40FGY-NH	89	BR	PUSH SW	143	W COMBI SW OUTPUT 1	
Connector Type M03FB-LC	þ		90	Ь	CAN-L	144	P COMBI SW OUTPUT 2	
á	厚		16	7	CAN-H	145	V COMBI SW OUTPUT 3	
华力	S II		95	œ	KEY SLOT ILL	146	Y COMBI SW OUTPUT 4	
			93	۵	ON IND	+	TIRE PF	
-	51	50 49 48 47 46 45 44 43 42 41 40 39 38 37 38 35 34 33 32	92	٦	ACC RELAY CONT	$\dashv$	SB DRIVER DOOR SW	
			96	<b>&gt;</b>	CVT SHIFT SELECTOR POWER SUPPLY	151	G REAR WINDOW DEFOGGER RELAY	
7			97	0	S/L CONDITION 1			
	ŀ		86	-	S/L CONDITION 2			
ŀ	la	Color Signal Name [Specification]	66	>	SHIFT P			
la l	┪	of Wire	9	۵	PASSENGER DOOR REQUEST SW			
No. of Wire	+	B LUGGAGE ROOM ANTI-	101	Μ	DRIVER DOOR REQUEST SW			
Н	35	W LUGGAGE ROOM ANT1+	102	Υ	BLOWER FAN MOTOR RELAY CONT			
2 GR POWER WINDOW POWER SUPPLY (BAT)	38	L REAR BUMPER ANT-	103	٦	KEYLESS ENTRY RECEIVER POWER SUPPLY			
3 L POWER WINDOW POWER SUPPLY (RAP)	$\dashv$	BR REAR BUMPER ANT+	106	>	S/L POWER SUPPLY			
	47	L IGN RELAY IPDM E/R CONT	107	0	COMBI SW INPUT 1			
	$\dashv$	$\dashv$	108	Ь	COMBI SW INPUT 4			
	$\dashv$	BACK	109	SB	COMBI SW INPUT 2			
	64	1	110	g	HAZARD SW			
	4	O REAR WIPER STOP POSITION	Ξ	LG	S/L COMM			

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Connector No. R24 Connector Name VANUTY MIRROR LAMP (DRIVER SIDE) Connector Type MICAQ2FW  H.S.	Terminal   Golor   Signal Name [Specification]   1   B   -	
Connector No. R19 Connector Name MAP LAMP Connector Type TK06FGY  M.S.  6 5 4 3 2 1	Terminal   Color   Signal Name [Specification]   1   PVM   2   Y	
INTERIOR ROOM LAMP  Connector Name WIRE TO WIRE  Connector Type THIGHY-NH  MA.  B 7 6 5 4 3 2 1  16 15 14 13 12 11 10 9	Terminal   Color   Signal Nane [Specification]   1   No. of Wire   No. of Wire   Signal Nane   Color   1   1   No. of Wire   2   SHIELD	Terminal   Color   Signal Name [Specification]   Color   Signal Name   Specification]

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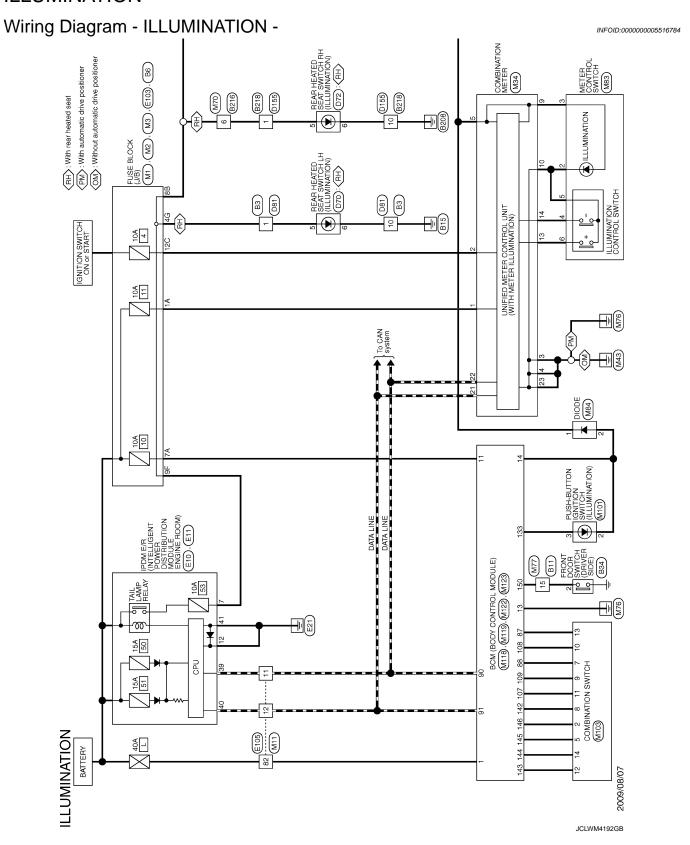
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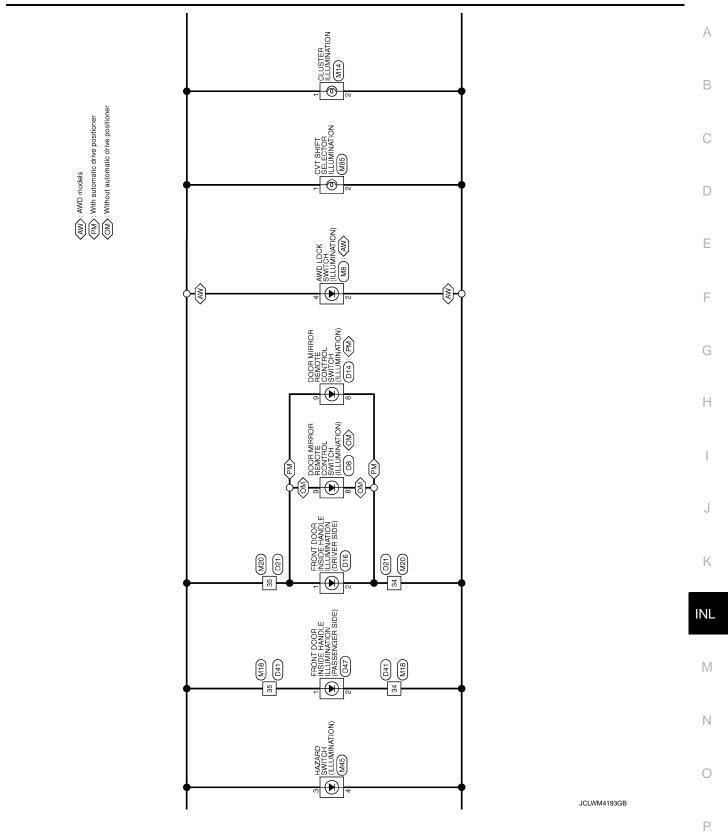
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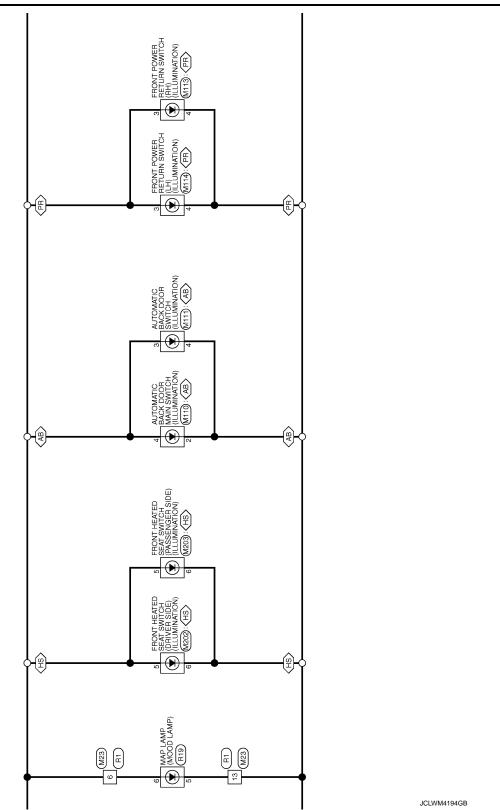
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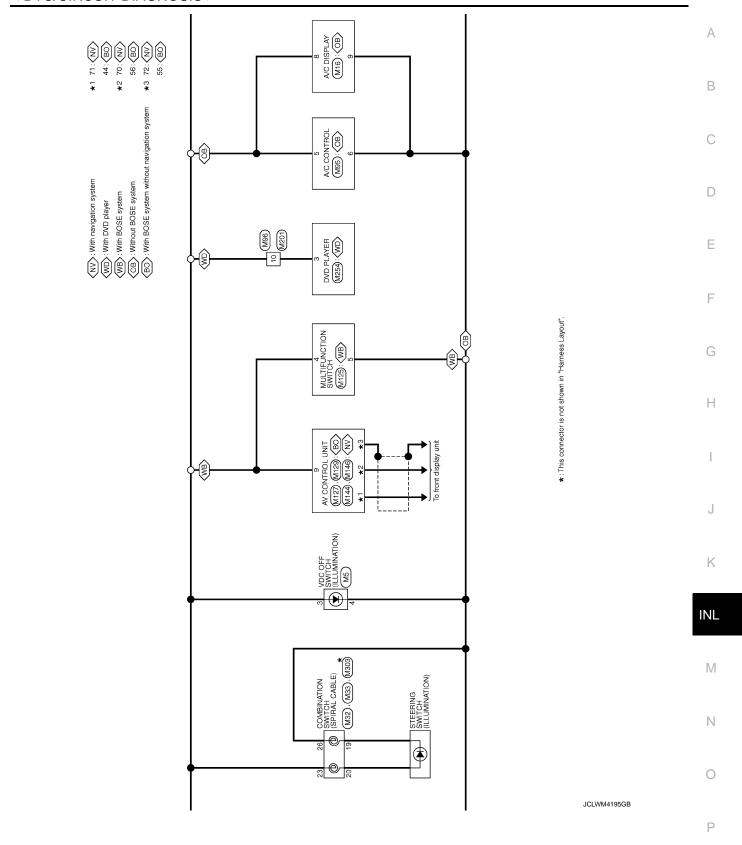
#### **ILLUMINATION**

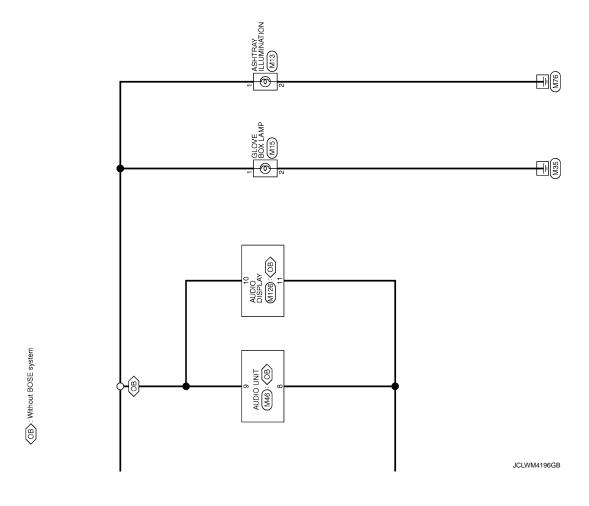




⟨HS⟩: With heated seat
⟨AB⟩: With automatic back door
⟨PR⟩: With rear seatback power return system







### **ILLUMINATION**

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#### < DTC/CIRCUIT DIAGNOSIS >

F	20 GA CA	- R	- 0 66		Connector No B34	Γ	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	Connector Type Angew	1	4	<b>K</b>	K		·To	7	8	]		Ni6 Million   Signal Name [Specification]		2 SB =			Connector No. B216	Г	Connector Name   WIRE   U WIRE	Connector Type NS16MBR-CS	1		2557	6 6	2 3 - 4 3 0	8 9 10 11 12 13 14 15 16				Terminal Color Signal Name [Specification]	of Wire	- 6	4 B/P –	0	F	>	85	ź	+	0	9			Ь	SB	ł																
ŀ	44 DK	╁		+	<u></u>		2 m		2	- 9	PC	┨	-			Ġ	a	- 2	N.L.	+	63 LG =	$\dashv$		- c c	Г	e9 SHIELD	W/R	Г	t	╀	74 SB -	3 -		5 (		SHIELD	79 B –	80 W =	81 R	H	83 BR -	H	┞	H		+	- 9 88	+	- A 06	91 G –	H	H	- × × ×	H	ł														
Γ	Т	Connector Name WIRE TO WIRE	Connector Type TH80MW-CS19	<b>■</b>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80 80 80 80 80 80 80 80 80 80 80 80 80 8	8 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				Terminal Color Signal Name [Specification]	of Wire	1 SHIELD -	2 B -	3 R/L		0	g <sub>c</sub>	Ť	1	8 SHIELD -			Г	H		⊦	╀	╁	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	. 8	3 0	צנ	<u> </u>	5	22 W –	4	24 GR -	H	27 V –	_	30 P	Т		Т	┪	┪	_	37 LG –	Α.	H	┞	43 G	l														
IATION	Т	Connector Name WIRE TO WIRE	Connector Type TK10FW-NS8	Œ	A TO	7	10 9 8 7 9 6 3 4	18 17 16 15 14 13 12 11				Terminal Color Signal Name [Specification]	of Wire	- 1 1	- P	0		╀		+		┥	GR	15 BR -	ж	H			Connector No.   R6	т	Connector Name FUSE BLOCK (J/B)	Connector Time Mergebbi-08	٦.	<b>₫</b>	をデ		5646 1362616	110100000000000000000000000000000000000	7			Color	No. of Wire Signal Name [Specification]		57 97	, t	4	- Y 201									JC	CLV	<b>∧</b> ∧	W4	119	)7G	ЗB	•					11

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ラロ	- 0 91 - 88 91		53 L -[With automatic drive positioner] 53 P -[Without automatic drive positioner]
	-		. SB
Connector Type TK10FW-NS8	Connector No. 1014	Connector Type TH40FW-CS15	54 LG -[Without automatic drive positioner] 55 LG -[With automatic drive positioner]
低	Connector Name DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC	Œ	0
	┰	H.S. (15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	
7 16 15 17 17	1	444342414039333736 2625242322212019	Connector No. D41
10 15 14	修		Connector Name WIRE TO WIRE
	H.S. (1913 4 FE 17)		Connector Type TH40FW-CS15
Terminal Color Simplification	1 2 2	Terminal Color Sizzel Name [Specification]	1
e.	8 10 11 12 13 14 13	No. of Wire	E
W - Mith BOSE sustand		> 0	H.S. 115 14 13 12 11 10 9 8 7 6 5 4 3 2 1
- 0	Terminal Color		18
0	_	┝	555458525150484847 3554833225130292827
5 B/P -[Without BOSE system]			
	7 B –	- BS 9	
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	J (	200	e.
13 \ 2	+		5 >
. a	. 1	╀	8
15 SB –		H	
17 R –	H		- d 9
18 GR –		+	0
		> {	æ (
Connector No	Т	10 GK	
Г	Connector Name SIDE	FG E	. CR
	Connector Type TK02FGY	Н	Н
Connector Type TK16FW	1	>	DT
4	CAHA	26 W =	24 LG =
	T S	H	: 0
11234 5 6 7	100	H	>
10 11 10 14		32 R –	30 SB -
9 10 11 12 13 14 13		33 G	7
	L	*	æ
L	lar	7	5
Terminal Color Signal Name [Specification]	No. of Wire	n (	34 Y
†	+	42 GK	33 [2]
- B	2 Y	43 L	
- 1 6		╀	
Н		Н	
۵		0	
13 LG		52 P –[With automatic drive positioner]	
┨		_	

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# **ILLUMINATION**

#### < DTC/CIRCUIT DIAGNOSIS >

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1   1   1   1   1   1   1   1   1   1	H I J
Cornector No   Distriction   Color	K
ILLUMINATION   Connector No.   D47   Connector No.   D47   Connector No.   D47   Connector No.   D47   Connector Type   TKOZFGY   Connector Type   TKOZFGY   Connector Type   TKOZFGY   Connector No.   Conn	N N
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ILLUN	إ≥	L [	-	-		:		Γ	
Connector No.	. No. E105	 T	67	£ :	1	Connector No.	M2	Connector No. M5	
Connector Name	Name WIRE TO WIRE		89 69	> 85	1 1	Connector Name	FUSE BLOCK (J/B)	Connector Name VDC OFF SWITCH	
Connector Type	Type TH70MW-CS10-M3	П	70	GR	_	Connector Type	NS10FW-CS	Connector Type TK06FGY	
Q	I		7.1	SB	1	q		Q	
手			72	<b>≻</b> .	1	手		性打	
H.S.	5 30 8 3 3 3 3 4 3 3 4 3 3 3 4 3 4 3 4 4 4 4 4		5/ 4/	۸ ۸	1 1	H.S.	100 00 00	HS.	
			75	: #	1		46 36 Lb		
		Ц	9/	GR	-		10E9B8B7B6B5B		
	2		77	0	1				
- 1		<u>ا</u> ا	78	>	Í				
Г	Color Signal Name [Specification]		92	>	ľ	a	Signal Name [Specification]	Terminal Color Signal Name [Specification]	
ġ.		T	80	α ≥	1 1	No. of Wire			
ı es		T	. &	<u>_</u>	ı	╀	1	: 83	
4		L	83	0	1	Ĺ	1	~	
2	T	П				2B L	-	4 SB –	
9	GR -					∀	-		
8	- D	<u>ര്</u>	Connector No.	No. M	1	7B R	1		
=	1	<u>ദ</u>	Connector Name		FUSE BLOCK (J/B)	+	ı	Connector No. M8	
12		ц Т		Т		9B GR	1	Connector Name AWD LOCK SWITCH	
13		ŏ	Connector Type	П	NS06FW-M2			- 1	
14	- 0	<u> </u>	<i>x</i>					Connector Type TK06FW-1V	
15	BR -		国			Connector No.	M3	φ	
50			Ę			Connector Name	FLISE BLOCK (J/B)	医	
21	BR -	<b>5</b>	5		3A 2A 1A				
22	- d	7			9 A 7 A 6 A 5 A 4 A	Connector Type	NS12FW-CS	4	
23	- L	7			12 12 12 12 12 12 12 12 12 12 12 12 12 1	á		т С	
24	1	П			]	厚		15.5	
22	- 0	ı T	L	-		S II			
56	- 5	T	la	Color	Signal Name [Specification]		5C 4C 3C 2C 1C	ŀ	
27		 	7	of Wire			12C11C10C9C 8C 7C 6C	la	
58	- BS	_ Т		>	Í			No. of Wire	
58		T	Y. 7	9	1			<b>→</b>	
g :	- -	T	<u>چ</u> :	<u>- </u>	İ	Ŀ		BS -	
47			4 <b>A</b>	£	ı	ē	Signal Name [Specification]	В	
48		_ Т	2A	~	i	<u> </u>		4 R	
49	- SBS	т Т	49 K	× (	1	29 K	1		
3 5	-	T	48	2 >	П	2 0			
20	2 >	J T	5	1		╀			
3 5	A 00	Т				5 5			
3 25	- 1	Τ				╀	1		
35	i >	Τ				╀	1		
26	M/K	Т				1			
G	- A	Τ							
19	- R8	Т							
62	- 0	Γ							
63	- 0/1	Γ							
T	SHIELD -	Г							
99		Γ							
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=	LLUM	ILLUMINATION			
ŏ	Connector No.	No. MII	4	2 SB –	Connector No. M18
ŏ	Connector Name	- Name WIRE TO WIRE			Connector Name WIRE TO WIRE
Ιŏ	onnector	Type TH70FW-CS10-M3	70 G	Connector No. M15	Connector Type TH40MW-CS15
<u>L4</u>	Q.	I		Connector Name GLOVE BOX LAMP	4
<u> </u>	Į.		73 L =	Connector Type A02FW	Č
•	Ź		W	q	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
		1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	医	1617181920212229242528 27282930181322324258 474849505152535455
			77 G =		
			Н	<u> </u>	
ŕ	Terminal	Color Signal Name [Specification]	9	<u> </u>	Terminal Color Signal Name [Specification]
			80 R		of Wire
	2 0		+		9 :
1	٦,	1		No of Mine Signal Name [Specification]	- A 7
1	+ u		$\frac{1}{2}$		\$ a
_	, «			× a	5 BD -[With BOSE system]
L	0 00		Connector No M13	2	
L	, =		Т		t
L	2		Connector Name ASHTRAY ILLUMINATION	Connector No. M16	1 ac
L	5 5		Connector Type A02EW	Т	3 3
<u> </u>	14		1	Connector Name A/C DISPLAY	F
_	15	- 2		Connector Type TH10FB-NH	H
<u></u>	20				- H
<u></u>	21			C	F
L	22		<u> </u>		╀
_	33	1	1 2		╀
_	24			1 2 3 4 5	. a
	3,5			0	
1	200		20100	Ω	+
	97 5		Signal Name [Specification]		30 00
	/7		o with		>>>
	20 2		- ·	Signal Name [Specification]	<b>≻</b> (
	67 6		2 8 =		
	g [	1		OND S	24 SB
	÷ ¢		Connectes No.	5 6	ν.
	g g		Τ	۲ 8	
_	£ 02	- B	Connector Name CLUSTER ILLUMINATION	10 I BY(AMB)DISD)	
1	3 2		Connection Time Acceptage		
1	5 5		П		
1	76		<b>4</b>		
	22	> !	AHT		
ı	4				
	22	n.			
_1	99		0		
_1	9	^			
_1	150	GR –			
_1	62				
	┪	^	Terminal Golor Signal Name [Specification]		
	64	9	of Wire		
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ILLUMIN	LUMINATION	TION	52 1 - [With automotic deise monitorous]	Torminal		ıc	ď	IOHIMINATION CONTROL
	т	т	- N		Signal Name [Specification]	0	88.	TRIP RESET SWITCH
Connector Name		WIRE TO WIRE	. 57	t	1	0	M	SW ILL POWER
Connector Type	П	TH40MW-CS15	- 5	H		10	0	METER CONTROL SW GND
þ			SB	29 Y	1	Ξ	٦	ENTER SWITCH
医			55 O -[Without automatic drive positioner]	30 →	1	12	œ	SELECT SWITCH
S H	Ŀ	C C C C C C C C C C C C C C C C C C C				13	> 1	ILLUMINATION CONTROL SWITCH (+)[With sutomatic drive positioner]
		PΙ	ſ			13	>	ILLUMINATION CONTROL SWITCH (+)[Without automatic drive positioned]
	16171818	16171819202122323242528   3637383940414243444546	Connector No. M23	Connector No.	M33	14	æ	ILLUMINATION CONTROL SWITCH (-)
	e levie		Connector Name   WIRE TO WIRE	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	15	BR	AIR BAG
			┱	ŀ	7.7	18	7	AMBIENT SENSOR
	-		Connector Type THI6MW-NH	Connector Type	IKU8FGY=IV	6	1	AMBIEN I SENSOR POWER
Terminal	Color	Signal Name [Specification]	đị.	ąĮ.		20	>	AMBIENT SENSOR GROUND
o.	of Wire		AHA	事		21	7	CAN-H
_	> (			Š		22	۵ (	CAN-L
7 0	9 3	1	103152		24 25 26	23	n	GROUND GROUND
,	s 0		0 ; t ;		21 20 22 21	74	s 0	FUEL LEVEL SENSOR GROUND
+ 4	-		9 10 11 12 13 14 15 16		20	67	5	DADVING BRANE SMITCH
c	_	'				92	3	PARKING BRAKE SWITCH
9	>	1	ŀ	ŀ		27	>	BRAKE FLUID LEVEL SWITCH
7	BR		la l	lal	Signal Name [Specification]	59	œ	WASHER LEVEL SWITCH
8	0	1	re	ò		30	۵	VEHICLE SPEED (2-PULSE)
6	SB	1	4	24 BR	-[With audio steering switch and telephone]	31	>	VEHICLE SPEED (8-PULSE)
10	٦	1	٩	$\dashv$	-[With audio steering switch without telephone]	32	ΓG	OD OFF/SPORTS
11	ŋ	1	2 R -[With telephone without navigation system]	25 P	1	34	g	FUEL LEVEL SENSOR
14	В	_	3 B =	26 SB	1	35	SB	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
15	GR	1	4 SHIELD –	31 G	-[With audio steering switch and telephone]	36	œ	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
16	٦	1		31 →	-[With audio steering switch without telephone]			
17	>	1	- × L	32 SB	1		-[	
18	W	_	- × 8	33 L	-[With audio steering switch and telephone]	Connector No.		M45
19	Υ	-	- B 6	33 SB	-[With audio steering switch without telephone]	Connector Name		HAZABD SWITCH
20	SB	-	V 01	34 Y	1	Collinecto		DAZARD SWITCH
24	Ь	-				Connector Type		TK04FW
25	^	-	12 L –			4		
56	W	-		Connector No.	M34	厚		
29	٣	-	15 G –	Connector Name	COMBINATION METER	) II o		
30	٦	-	16 R –	on leading	COMPANY METERS	2		
31	SB	-		Connector Type	TH40FW-NH			3 1 2 4
32	Μ	1	ſ	þ				
F .	1 8		Connector No. M32	李				
94	200		Connector Name COMBINATION SWITCH (SPIRAL CABLE)	S H		ŀ	-	
30	<u> </u>		T	100	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lerminal No	Color Mins	Signal Name [Specification]
4 5	5 0	1	Connector Type TKUSHY-EX-TV	21 22 23 2	36 37 38	NO.	o Mile	
47	2 0		<b>₫</b>			- (	ם	1
2 3	>					7 0	5 0	1 1
44	۔ [			L		1	r 8	1
42	ء ء		21 22 23	Terminal Color	Signal Name [Specification]	4	SB	-
0	1 >		000000	+	T. a			
200	}		05 62 07	- 0	BAI			
0 2	o 8	- Dagst		+	NEI			
25	¥ .	-[With automatic drive positioner]		m (	GROUND			
25	r	-[Without automatic drive positioner]		4 D	GROUND			

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### **ILLUMINATION**

#### < DTC/CIRCUIT DIAGNOSIS >

	ILLUMINATION	NOIL						
Connector No.	tor No.	M46	+		34	>	1	ч
Connec	Connector Name	AUDIO UNIT	12 2		35	SHELD	1	
Connec	Connector Type	TH18FW-CS2	+	1 1	37 %	5 >	1 1	n C
] _ _			15 BR	-	40	0	1	- 5 16
修	_		Н		41	0	1	BR
HS	,	[			42	SB	1	а:
	1	1122161700			43	_ ;	1	> (
	19	10 11 10 10 11 15 16	Connector No.	Т	44	> 0	0 1	- O 38
		10 11 12 13 14 13 10 17 10	Connector Name	e WIRE TO WIRE	46			╁
			Connector Type	TH80FW-CS19	47	>	1	- 57 86
Terminal		Simal Name [Cnavification]			48	٦	-	- × 66
No.	of Wire	╛	厚	[ [	49	g	1	
2	-	SOUND SIGNAL FRONT LH (+)	Š		20	SHIELD	1	
က	ш	SOUND SIGNAL FRONT LH (-)			51	>	1	Connector No. M83
4	5	SOUND SIGNAL REAR LH (+)		S Z	52	В	t	Connector Name METER CONTROL SWITCH
5	>	SOUND SIGNAL REAR LH (-)		E 8	53	æ	t	П
9	≥	STRG SW A			54	ш	1	Connector Type TH12FW-NH
	<b>∡</b>	ACC	L		99	9	1	d)
ω (	8	ILLUMINATION CONTROL	na L	or Signal Name [Specification]	26	<u>.</u>	1	AHAT
o :	~	ILLUMINATION	No. of Wire		22	-	1	(
=	监	SOUND SIGNAL FRONT RH (+)	- SHELD		28	SB	1	1 7
12	4	SOUND SIGNAL FRONT RH (-)	+	1	29	SHIELD	1	Z 3 4 D
- 13	4	SOUND SIGNAL REAR RH (+)	+		09	В	1	7 8 9 10 11 12
4	+	SOUND SIGNAL REAR RH (-)	+		9	œ	1	
15	SS :	STRG SW GND	+		62	× (	1	-
91	>   -	STRG SW B	9 9		63	0	-	Terminal Color Signal Name [Specification]
16	> 	BATTERY	✝		64	>	1	of Wire
			\$		99	_	1	x (
d		×	+		/9	r	1	2
Connec	Connector No.	M/0	+	1	89 8	5 1	1	
Connec	Connector Name	WIRE TO WIRE	+		60 0	SHIELD	ı	- 4 J
	Too	Notation of	12 B		0 12	ے د	1	> >
Connec	tor 1ype	NSI 0F BR-CS	+		- 6	¥ <u> </u>	1	+
Œ			╀		2/	2 >		11 CD
事			+		74	- 0		3 -
H.S.	_	7 0 0 0 1 0 1 0 1 7	╀		1, 2,	£ 0	1	
	_	7 0	81		92	-	1	
		16 15 14 13 12 11 10 9 8	╀	1	77	92	1	
	1		┞		78	SHIELD	1	
			H		79	8	1	
Termin			H	-	80	Χ	1	
No.	of Wire	Signal Name [Specification]	23 LG	-	18	57	1	
-			$\vdash$	1	82	_		
4	<u> </u>		╀		83	3	-[With automatic drive positioner]	
· u	.   c		╀		83	9	-[Mith driver olds power cost]	
9	) a		╀		84	á	7	
2	>		╀		85	>	-[With front heated seat and passenger side power seat]	
8	>	1	31 W	ı	82	æ	-[With front heated seat without passenger side power seat]	
6	-	1	H		98	*	1	
D.	_		-		00	\$		
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ILLUMINATION  Connector No. M84  Connector Name DIODE  Connector Type 24335 09902	3 L 4 P P P P P P P P P P P P P P P P P P	RX(AMP)SW) TX(SW)AMP) ILL+ ILL-	2 0 3 W 4 4 BR 6 L C 6 C C C C C C C C C C C C C C C C		Color   Colo	Signal Name [Specification]
	Connector Name		Connector No.	1 1 1 1	Connector No. Connector Name Connector Type	MIII AUTOMATIC BACK DOOR SWITCH TKO8FGY
Signal Name [Specification]	HS.	8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9	HS.	112 3 4 5 6	·S:	43211
M85 CVT SHIFT SELECTOR ILLUMINATION	Terminal Color No. of Wire	Signal Name [Specification]		7 8 9 10 11 12 13 14	Torminal	
П	- & 4 - R -		Terminal Color No. of Wire	or Signal Name [Specification]	_	Signal Name [Specification] -
	5 6 R		1 G	RR OUTPUT 4	3 S	
	φ		8		4 SB	
	Н	1	H	00	:	
	0 =	1 1	6 B	GND GND INPLIT	Connector No.	M113
Signal Name [Specification]	Н	1	Н		Connector Name	FRONT POWER RETURN SWITCH (RH)
	13 W	1 1	9 SB	INPUT 2 INPUT 4	Connector Type	TK04FW
	φ		H		修	
	0		13 15	NPIT 5	H.S.	
			Н			4 3 2 1
	Connector No.	$\neg$				
	Connector Name	$\neg$	Connector No.	MIIO	Į.	
	Connector Type	TK08FBR	Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH	Terminal Color No. of Wire	Signal Name [Specification]
	修		Connector Type	TK08FW	- 0	-
	H.S.	1 5 6 7 8	图 HS.	Shirt Shirt	4 3 2 R	1 1 1
Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]		1236		
	- B	1				

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PRONT POWER RETURN SWITCH (LH)	of Wire		100			
	-	+	3	ı :	PASSENGER DOOR REQUEST SW	Connector Name MULTIFUNCTION SWITCH
		PASSENGER DOOR LINE OOK OUTPLIT	100	<b>&gt;</b>	BI OWER FAN MOTOR RELAY CONT	Connector Type TH16FW-NH
8 6	*	t	103	- 7	KEYLESS ENTRY RECEIVER POWER SUPPLY	
6	Н	П	106	>	S/L POWER SUPPLY	
	4	DRIVE	107	0	COMBI SW INPUT 1	7
	+	REAR DO	108	۵	COMBI SW INPUT 4	7,0,0
4 3 2 1	7	+	109	SB	COMBI SW INPUT 2	D 8 10 12 14
	m (	GND ONE OF THE PROPERTY OF THE	011	5 C	HAZARD SW	1 3 5 7 9 11 13 15
4	╀	ACC IND		3	3/ L COMIN	
	1 0	NO. IT				Torminal
Signal Name [Specification]	╀		Connector No	Γ	M193	_
	╁	Nood		Ι	24	t
		COM LAWY LIMEN CONTINCE	Connector Name		BCM (BODY CONTROL MODULE)	
			Connecto	Tyne	HN-0908-11	
0	Oppositor No	Miss		2		
200	2	Т	€			S S S S S S S S S S S S S S S S S S S
Conne	Connector Name	BCM (BODY CONTROL MODULE)	李			A -
0,144	T. makes	H 01071	\ \ \ \			CM CMC
2001	acros she	7		30 129	120 119 118	SW GND
BCM (BODY CONTROL MODULE)				151 150 149 148 14	147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132	M
	_					
M03FB-LC	٦ ا					
	1	1/				Connector No. M126
	91 80	89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72	Terminal	Color		Г
	111 110	108 107 105 105 104 103 102 101 100 99 98 97 96	N	of Wire	Signal Name [Specification]	Connector Name   AUDIO DISPLAY
			9	2	And the state of t	Т
- C			711	Ľ	RAIN SENSOR SERIAL LINK	
			113	0	OPTICAL SENSOR	
Limit	rolo	_	116	a	FIISE CHECK	4
		Signal Name [Specification]		5	TOSE OFFICE	
No.	or Wire		118		STOP LAMP SW	<u> </u>
62	, B		110	Μ	DR DOOR HIN OCK SENSOR	
	a	NOOM ANTZ	-	=	Dr. DOON ONLOON SENSON	7 0 0
73			121	>	KEY SLOT SW	7 3 4 5 6
	L	PAS	123	9	IGN F/B	7 8 0 10 11 13
I	╀	ļ	ç		WO GOOD GROWING	3 10
	4	ì	124	¥	PASSENGER DOOR SW	
OWER WINDOW POWER SUPPLY (BAT) 76	>	DRIVER DOOR ANT-	130	BR	REAR DEFOGGER SW	
POWER WINDOW POWER SLIPPLY (RAP)	7 P	DRIVER DOOR ANT+	132	ڻ	POWER WINDOW SW COMM	Terminal Color
1	ł		,	t	CLINIC INCIDENTAL PROPERTY OF THE PROPERTY OF	
08	2		133	\$	PUSH-BULLON IGNITION SWILL POWER	o wife
	0	IMMOBI ANTENNA SIGNAL	134	œ	LOCK IND	1 G AV COMM (L)
M119 82	2 BR	IGN RELAY (F/B) CONT	137	۵	RECEIVER/SENSOR GND	2 R AV COMM (H)
I	ł	╀	1 20	.	VIDDIG COMPO COMPO COMPO	
BCM (BODY CONTROL MODULE)	+	+	88	>	RECEIVER/SENSOR POWER SUPPLY	B
87	7 R		139	0	TIRE PRESS RECEIVER SIGNAL	8 R ACC
NS16EW-CS	ag ag	COMBLOW INDUTES	140	æ	CHIET N/D	>
20 11	+		2	ś	L/ALLINO	-
68	BR		141	0	SECURITY INDICATOR OUTPUT	10 R ILL+
06	0	CAN-L	142	_	COMBI SW OUTPUT 5	-111 88 111
ā	-	HINAC	140	144	1 THOTHOWS IGNOOD	
	4		2	•		
5 6 7 8 9 10	2	KEY SLOT ILL	144	۵.	COMBI SW OUTPUT 2	
	L	ON NO	145	>	COMBLSW OUTBILT 3	
12 13 14 15 16 17 18 19	<u> </u>	Encount and con-	[		A LOUIS ON THE PROPERTY OF	
GS .	٦	ACC RELAY CONI	140	<u>_</u>	COMBLSW CUIPUL 4	
96	∠	CVT SHIFT SELECTOR POWER SUPPLY	149	*	TIRE PRESS WARNING CHECK SW	
5	6	t	Ç I	8	We dood daylan	
	4	S/L CONDITION I	200	9	DRIVER DOOR SW	
16		6 NOILLONDILLON 6	151	g	REAR WINDOW DEFOGGER RELAY	

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ILLUMINATION Connector No.   M127	56 R COMM (CONTXDISP)	61 G ROB (RRED) SIGNAL	L Corrector No. M202
Connector Name AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT	α	α	Connector Name
Т	BR	W RGB (B	
Connector Type TH18FW-CS2	59 Y INVERTER VCC	64 SHIELD SHIELD	Connector Type NS06FW-CS
<b>4</b>		Sure	<b>€</b>
	Connector No. M144	W RGB AR	<u> </u>
7	Т	8	\frac{1}{2}
1 2 3 4 5 6 7 8 9	Connector Name AV CONTRULUNIT (WITH NAVIGATION SYSTEM)	69 R VP	7 0
19 10 11 12 13 14 15 16 17 18 20	Connector Type TH18FW-CS2	70 R COMM (CONT->DISP)	1 7 4
		71 G COMM (DISP->CONT) 72 SHIFLD SHIFLD	Ĺ
Terminal Color		9	Terminal Color
	/ \ \		
6 BR STRG SW A	123456789	Connector No. M201	
œ (	19 10 11 12 13 14 15 16 17 18 ZU	Connector Name WIRE TO WIRE	> 8
¥.		-	GK -[With front heated seat with
+	L	Connector Type THT6MW-NH	x (
10 V BATTEDV	l erminal Color Signal Name [Specification]	1	a a a
- 60	t		÷ S
-	SOUN	2	┨
		1 2 3 4 5 6 7 8	
Connector No. M129	4 L SOUND SIGNAL REAR LH (+)	9 10 11 12 13 14 15 16	Connector No. M203
Connector Name NAVIGATION SYSTEM WITHOUT NAVIGATION SYSTEM	R SOUND		Connector Name FRONT HEATED SEAT SWITCH (PASSENGER SIDE)
Т	7	H	Т
Connector Lype   HZ4FW-NH	ACC ACC B B IIIIMINATION	Signal Name   Specification   No of Wire	tion]
	q	t	
	B SOUND SIG	3 R	
			2 0
47 46 45 44 43 42 41 40 39 38 37 36	>	+	4 2 1 3
59[58[57]56[55[54]53[52[51]50[49]48]	LG SOUND	- B	
	IS L SIRG SW GND	- SHIELD	
Terminal Color	5 >	> 0	Terminal Color
		_	_
36 L COMPOSITE IMAGE SIGNAL		H	9 1
37 P COMPOSITE IMAGE GND	Connector No. M146	12 G –	2 L –
>-	Connector Name AV CONTROL UNIT (WITH NAVIGATION SYSTEM)	+	+
	┪	14 W =	+ B
G RGB	Connector Type TH12FW-NH	하	+
B	1	- B	6 BR -
SHELD			
43 W RUB AREA (13) SIGNAL 44 G COMM (DISP=>CONT)	7		
9	62 64 66 68 70 72		
LG	61 63 65 67 69 71		
O SI			
SHELD			
50 SHIELD SHIELD	Terminal Golor Signal Name [Specification]		
SHIELD			

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Connector No. R19 Connector Name MAP LAMP Connector Type TKG6FCV  MS. A. S. TKG6FCV  MS. TKG6FGV	nal Golor Signal Name of Wire PrW	2 Y Y SB B R N N N N N N N N N N N N N N N N N			
Ocior Signal Name [Specification] of Wire		H.S.   R   C   S   L   L   L   L   L   L   L   L   L	Color   Signal Name [Specification]   Of Wire     R-VW   SHIELD   - [With telephone and navigation system]     R/L   (With telephone without navigation system]     B   SHIELD   -   RVI.	+++++	ξ α
Terminal No. 13 14 15 15 15 16 16 18 18 19	20 Connect	Connection II.S.	Terminal No. No. 2 2 2 3 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 6 01 12 13 13 13	91
NATION  M254  me DVD PLAYER  ps TH32FW-NH  4 6 8 101 71 41 (61 81 20 20 20 20 20 20 20 20 20 20 20 20 20	Signal Name (Specification)	BATTERY ILLUMINATION AGC AGC SHIELD DVD IMAGE SIGNAL AUX SOUND SIGNAL LH (-) AUX SOUND SIGNAL LH (-) AUX SOUND SIGNAL LH (-) AUX SOUND SIGNAL H (-) AUX SOUND SIGNAL H (-)	HEADPHONE SOUNDSIGNAL, SIGNAL, LH (*)  HEADPHONE SOUNDSIGNAL, SIGNAL, LH (*)  HEADPHONE SOUNDSIGNAL, SIGNAL, RH (*)  SOUND SIGNAL, LH (*)  SOUND SIGNAL, LH (*)  SOUND SIGNAL, RH (*)  SOUND SIGNAL, RH (*)	AV COMM (H)  AV COMM (H)  AV COMM (H)  AV COMM (H)	TKOBEGY  TROSEGY  TRO
		> R S R S R S R	S S S S S S S S S S S S S S S S S S S	2 2 2 2	
ILLUMINA Connector No. Connector Name Connector Type	Terminal No.	2 3 4 4 7 7 7 7 11 13 13	16 17 18 19 20 20 22 22 23 24 24	30 E 32 E 5 Sonneartor No	Connector Name Connector Type

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< 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
FR WIPER 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
2000 0W DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
2002 014/40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD OW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
200D OW BY	Back door closed	Off
DOOR SW-BK	Back door opened	On
	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	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 NOTE:	Rear window defogger switch OFF	Off
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
TIVED OF LIN OVV	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of Intelligent Key is not pressed	Off
MAL LOOK	LOCK button of Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off
NAL-UNLOUN	UNLOCK button of Intelligent Key is pressed	On
RKE-TR/BD	BACK DOOR OPEN button of Intelligent Key is not pressed	Off
ANL-TR/DU	BACK DOOR OPEN button of Intelligent Key is pressed	On
DIVE DANIC	PANIC button of Intelligent Key is not pressed	Off
RKE-PANIC	PANIC button of Intelligent Key is pressed	On
DVE 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-MODE 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
REQ SW -DR	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NEQ 3W -A3	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
NEW OVV -DD/ IIV	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
- OGIT GW	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
IGN ICE 2-17B	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 2	Stop lamp switch 1 signal circuit is normal	On
DETE/CANCL SW	Selector lever in P position	Off
DETE/CANCL 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
OI I FIV/IN OW	Selector lever in P or N position	On
S/L -LOCK	Steering is unlocked	Off
<b>NOTE:</b> For models without steering lock unit this item is not displayed.	Steering is locked	On
S/L -UNLOCK NOTE:	Steering is locked	Off
For models without steering lock unit this item is not displayed.	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
<b>NOTE:</b> For models without steering lock unit this item is not displayed.	Ignition switch in ON position	On
<u></u>	Driver door is unlocked	Off
UNLK SEN -DR	Driver door is locked	On
DUCH OW IDDA	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On

Monitor Item	Condition	Value/Status
GN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
GN KLT I -F/B	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
DETE SW -IPDIM	Selector lever in P position	On
OFT DN IDDM	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On
DET D. MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
NET 11 14ET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
	While the engine stalls	Stall
NGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
IOTE: For models without steering lock unit nis item is not displayed.	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
IOTE:  for models without steering lock unit his item is not displayed.	Steering is unlocked	On
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK.	Off
For models without steering lock unit his item is not displayed.	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK.	On
/EH SPEED 1	While driving	Equivalent to speed- ometer reading
/EH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
OOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
OOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
	Power supply position in LOCK position	Reset
O OK FLAG	Power supply position in any position other than LOCK	Set
ADMIT THE OTTO	The engine start is prohibited	Reset
RMT ENG STRT	The engine start is permitted	Set
RMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
VEV 0144 01 0T	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.	_

Monitor Item	Condition	Value/Status
CONFRM ID ALL	The Intelligent Key ID that the key slot receives is not recognized by any Intelligent Key ID registered to BCM.	Yet
CONTRIB 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
CON INWIE	The Intelligent Key ID that the key slot receives is recognized by the fourth Intelligent Key ID registered to BCM.	Done
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
CONFIRM ID2	The Intelligent Key ID that the key slot receives is recognized by the second Intelligent Key ID registered to BCM.	Done
CONFIRM ID1	The Intelligent Key ID that the key slot receives is not recognized by the first Intelligent Key ID registered to BCM.	Yet
CONFIRMIDI	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
1P 4	The ID of fourth Intelligent Key is registered to BCM	Done
TD 2	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
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
IF Z	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
IF I	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 LF tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGGITET	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGOT FRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGOT RICT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

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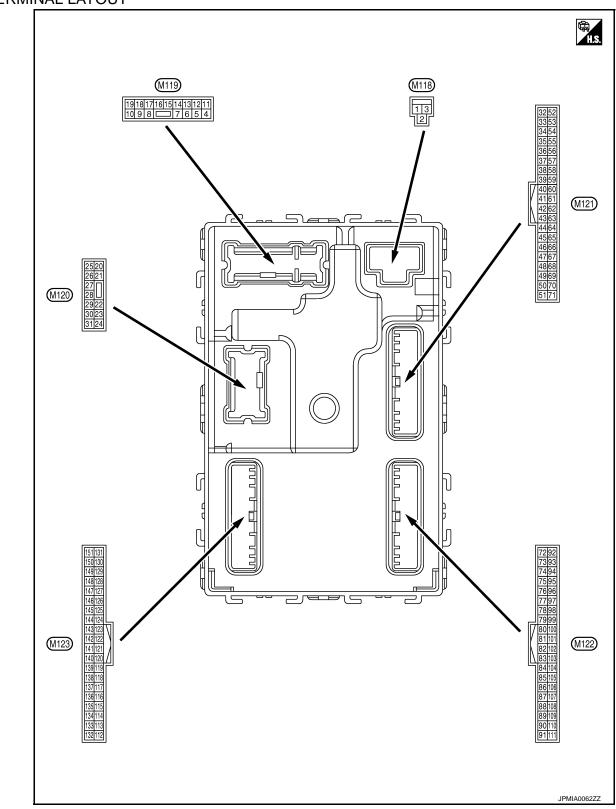
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#### TERMINAL LAYOUT



PHYSICAL VALUES

Revision: 2009 September INL-59 2010 Murano

Term	inal No.	Description				
(Wire	e color)	Signal name	Input/		Condition	Value (Approx.)
+	_		Output			, , , , , , , , , , , , , , , , , , ,
1 (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		Intovior voors loves			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	December door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp	Output	Step lamp	ON	0 V
(W)	Ground	Otop lamp	Output	Otop lamp	OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	Oround	all doors LOCK Ou	Output		Other than LOCK (Actuator is not activated)	0 V
9	0	Driver de la INII OOK	Outrast	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	0	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.)	
17 (G)		Turn signal RH	RH Output	Ignition switch ON	Turn signal switch OFF  Turn signal switch RH	0 V	
					Turn signal switch OFF	1 s PKID0926E 6.5 V 0 V	
18 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s	
					055	6.5 V	
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF ON	Battery voltage  0 V	
		Back door open	Output	ut Back door	OPEN (Back door opener actuator is activated)	Battery voltage	
23 (BR)	Ground				Other than OPEN (Back door opener actuator is not activated)	0 V	
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V	
(G)	Giodila	rteal wipel	Output	iteai wipei	ON (Operated)	Battery voltage	
34	34 (B) Ground	nd Luggage room antenna (-)	ten- Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1   S   S   S   S   S   S   S   S   S	
(B)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
35	Ground	Luggage room anten-	en- Output	Output Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Clound	na (+)			When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
38	Ground	round Rear bumper anten- na (-)	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)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
39	Ground	Ground 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 1 s  JMKIA0062GB
(BR)	Giodila				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47 (L)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage 0 V

	inal No.	Description			_	Value	
+ (VVir	e color)	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	
					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		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	

	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	I Rear I H door switch I Innuit I	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 (B)	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
					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
73	Outside	Room antenna (+)	0.4.4	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(W) Ground	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
74 (Y) Ground	Canada	Passenger door antenna (-)	. Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
75	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(LG)	Ground	tenna (+)	. ,	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	

	inal No.	Description		Condition		Value
+	e color)	Signal name	Input/ Output			(Approx.)
76	Ground	Driver door antenna	Outsit	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s  JMKIA0062GB
(V)	Ground (-) Output switted with the control of the c	switch is operated with ignition switch OFF	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 0 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)		block (J/B)] control	Cutput	ignition switch	ON	Battery voltage

Terminal No. (Wire color)		Description				Value	
+	<u> </u>	Signal name	Input/ Output	Condition		(Approx.)	
02		Remote keyless entry	Input/	During waiting		(V) 15 10 5 1 ms JMKIA0064GB	
83 (P)	Ground	Remote keyless entry receiver communication	Input/ Output	When operating e	ither button on Intelligent Key	(V) 15 10 5 1 ms  JMKIA0065GB	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
87 (R)	Ground	Combination switch InpUT 5	Input	out Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0037GB 1.3 V	II
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 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 6  Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB	

	inal No.	Description				Value	
(Wire	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 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 5 0 2 ms JPMIA0037GB	
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 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 1.3 V	
89	Oreside	Push-button ignition	1 1	Push-button igni-	Pressed	0 V	
(BR)	Ground	switch (push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage	
90 (P)	Ground	CAN - L	Input/ Output		_	_	
91 (L)	Ground	CAN - H	Input/ Output		_	_	

Terminal No. (Wire color)		Description  Signal name  Input/ Output				Value
					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	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)	Ciodila	-	Japan	.g	ACC or ON	Battery voltage
96 (Y)	Ground	CVT shift selector (detention switch) power supply	Output		_	Battery voltage
97* <sup>1</sup>	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(O)	Ground	tion No. 1	iiiput	Ciccing lock	UNLOCK status	Battery voltage
98* <sup>1</sup>	Ground	Steering lock condi-	Input	Steering lock	LOCK status	Battery voltage
(L)		tion No. 2		<u> </u>	UNLOCK status	0 V
99 (V)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
(v)		GOTT SWILLOTT			Any position other than P	Battery voltage
100 (P)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)  OFF (Not pressed)	0 V  (V) 15 10 10 ms  JPMIA0016GB  1.0 V
					ON (Pressed)	0 V
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)	Stourid	lay control	Juiput	iginaon switch	ON	Battery voltage
103 (L)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage

	ninal No. e color)	Description				Value	
+	Signal name Input/ Output		Condition		(Approx.)		
106* <sup>1</sup>	Ground	Steering lock unit	Output	Ignition switch	OFF or ACC	Battery voltage	
(Y)	Ground	power supply	Output	ignition switch	ON	0 V	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	
				Combination switch (Wiper intermit- tent dial 4)	Turn signal switch LH	(V) 15 10 2 ms JPMIA0037GB	
107 (O)	Ground	Combination switch INPUT 1	Input		Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB	
					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	

Signal name Output  All switches OFF (Wiper intermittent dial 4)  Lighting switch AUTO (Wiper intermittent dial 4)  Lighting switch AUTO (Wiper intermittent dial 4)  Lighting switch 1ST (Wiper intermittent dial 4)  Rear wiper switch INT (Wiper intermittent dial 4)  Rear wiper switch INT (Wiper intermittent dial 4)  Rear wiper switch INT (Wiper intermittent dial 4)	Terminal No.		Description				Value	٨	
All switches OFF (Wiper intermittent dial 4)  Lighting switch AUTO (Wiper Intermittent dial 4)  Lighting switch AUTO (Wiper Intermittent dial 4)  Lighting switch 1ST (Wiper intermittent dial 4)  Rear wiper switch INT (Wiper intermittent dial 4)		e color)	Signal name	Input/ Output		Condition		А	
Ground Combination switch INPUT 4  Combination switch INPUT 4  Combination switch ST (Wiper intermittent dial 4)  Rear wiper switch INT (Wiper intermittent dial 4)  Rear wiper switch INT (Wiper intermittent dial 4)  Rear wiper switch INT (Wiper intermittent dial 4)  1.3 V							15 10 5 0 2 ms	B C	
Ground (P) Ground Combination switch INPUT 4 Input Inp						Lighting switch AUTO (Wiper intermittent dial 4)	2 ms	E	
Rear wiper switch INT (Wiper intermittent dial 4)    The state of the		Ground		Input			10 5 0 2 ms	G H	
(V) <sub>[-++++++++</sub>								10 5 0 2 ms	J K
Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6						<ul><li>with all switches OFF</li><li>Wiper intermittent dial 1</li><li>Wiper intermittent dial 5</li></ul>	2 ms	M	

	inal No.	Description				Value	
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
					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 1.3 V	
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	
					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 JPMIA0012GB 1.1 V	

	inal No. e color)	Description			O a little a	Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	Battery voltage
111* <sup>1</sup> (LG)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)			-	ON	When dark outside of the vehicle	Close to 0 V
116 (GR)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118 (L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed) ON (Brake pedal is de-	0 V
					pressed)	Battery voltage
119 (W)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB
					UNLOCK status (unlock sensor switch ON)	0 V
121	Ground	Key slot switch	Input	When Intelligent K	ey is inserted into key slot	Battery voltage
(Y)	Ciound	ROY SIOL SWILDIT	mput	When Intelligent K	ey is not inserted into key slot	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(G)				J	ON	Battery voltage

	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (When passenger door opens)	0 V
130* <sup>2</sup> (BR)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V
					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
				Ignition switch OFI	F or ACC	Battery voltage
					ON (When tail lamps OFF)	9.5 V
						NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (When tail lamps ON)	(V) 15 10 0 JPMIA0159GB
					OFF	0 V
134 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF (ACC and ON indicator lamps are not illuminated.)	Battery voltage
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON	ON	0 V 0 V
138	Or	Receiver and sensor	October 1	Implified and 1	OFF	0 V
(V)	Ground	power supply	Output	Ignition switch	ACC or ON	5.0 V

Terminal No. (Wire color)		Description	T		0 111	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
139		Tire pressure receiv-	Input/	lanition switch	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D	
(O)	Ground	er communication	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 ••• 0.2s OCC3880D	
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)		Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0  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 5 0 2 ms  JPMIA0032GB  10.7 V	

	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4) Front washer switch ON	0 V
					(Wiper intermittent dial 4)	
144		Combination switch		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)	10 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
					Front wiper switch INT/ AUTO	(V) 15
145		Combination switch		Combination switch	Front wiper switch LO	10
(V)	Ground	OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	5 0 2 ms JPMIA0034GB
					All switches OFF	10.7 V
					Front fog lamp switch ON	0 V
					Lighting switch 2ND	(V)
146		Combination switch	_	Combination switch	Lighting switch PASS	15
146 (Y)	Ground	OUTPUT 4	Output	(Wiper intermit- tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB
149 (W)	Ground	Tire pressure warning check switch	Input	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0011GB
150 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (When driver door opens)	0 V

## < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
151	Ground	Rear window defog-		Rear window de-	Active	0 V
(G)	Ground	ger relay control Outpu	Output	fogger	Not activated	Battery voltage

#### NOTE:

- \*1: With steering lock unit
- \*2: Without BOSE audio system

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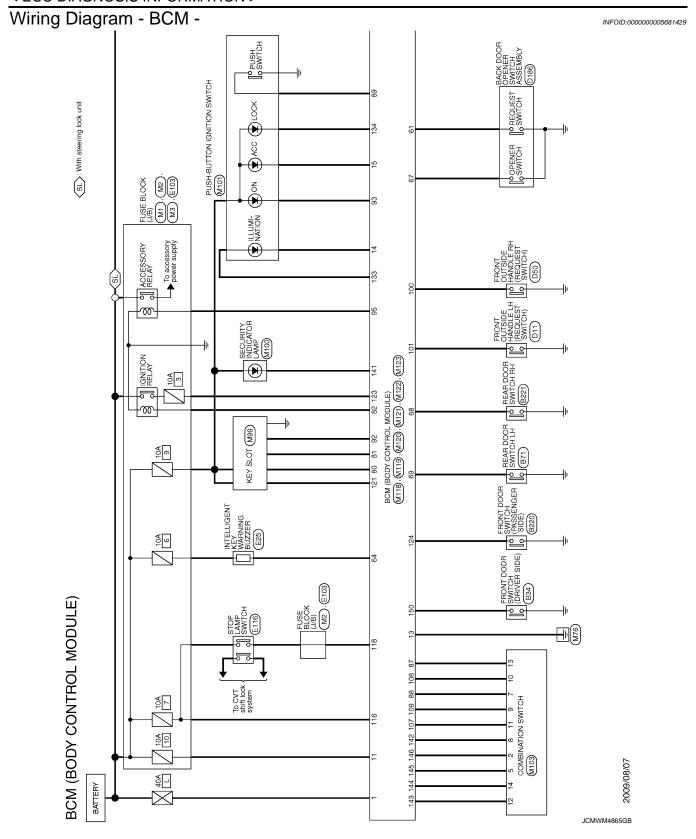
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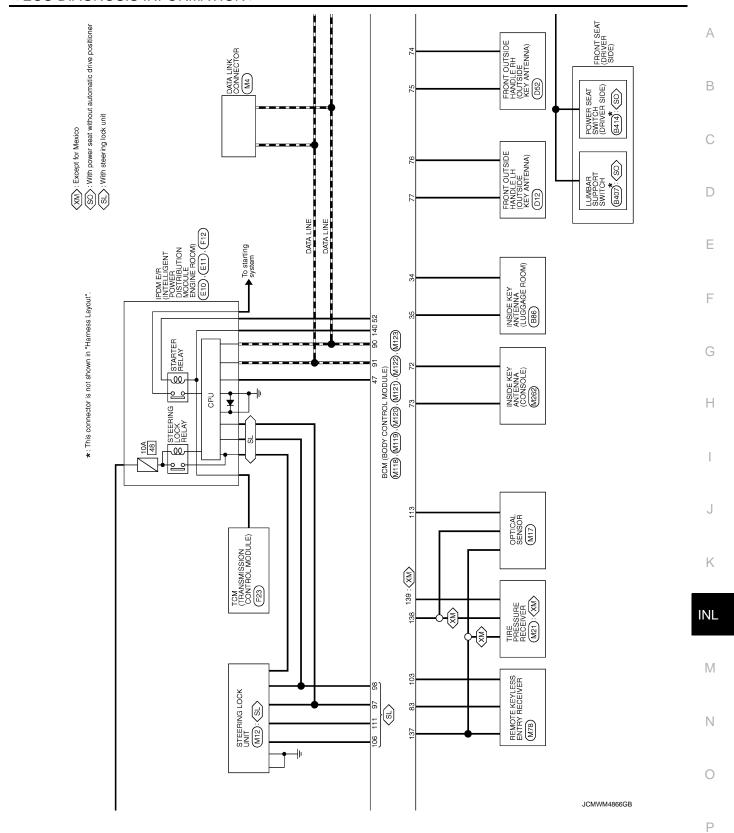
 $\mathbb{N}$ 

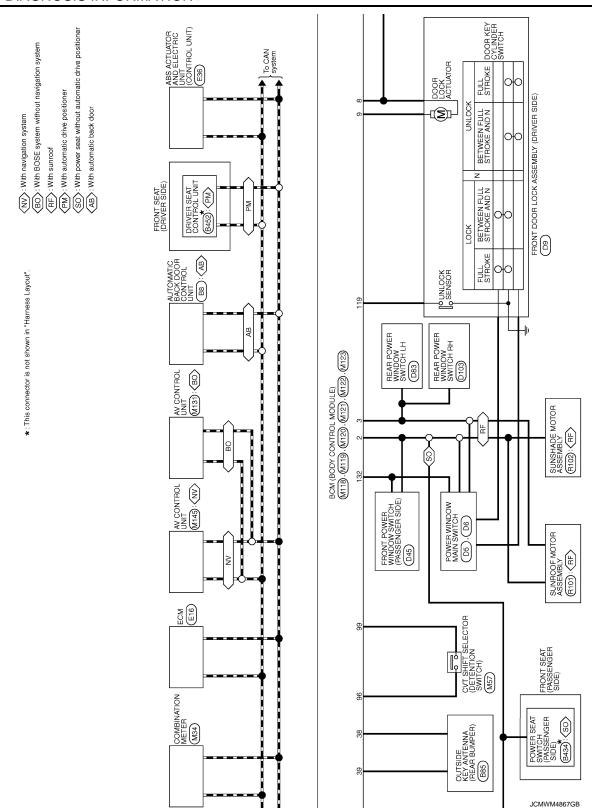
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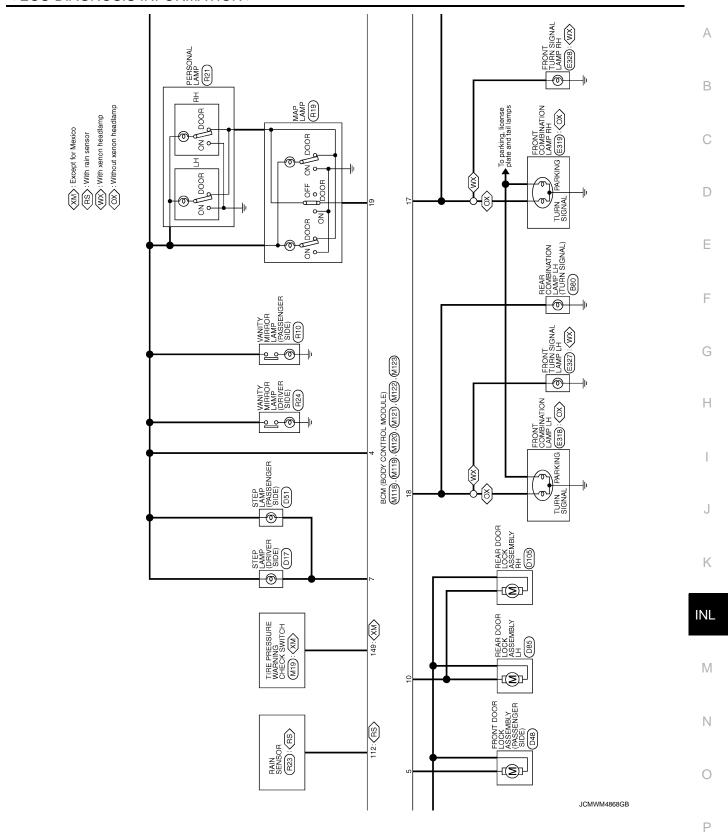
0

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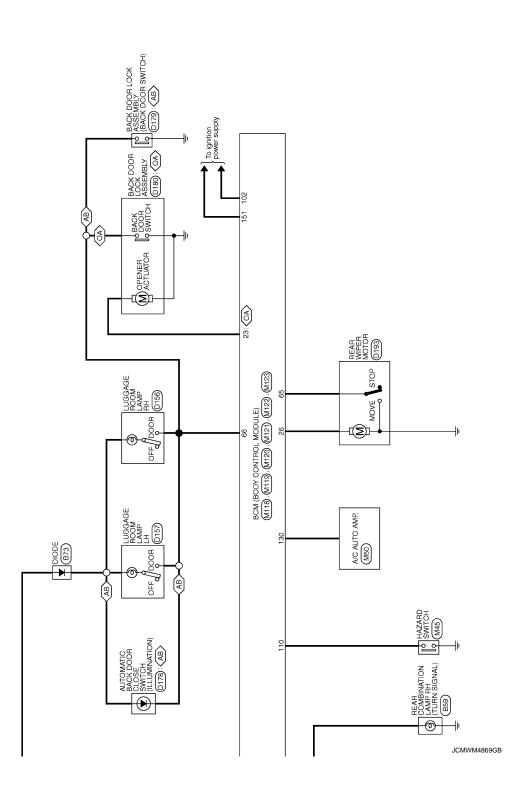












## < ECU DIAGNOSIS INFORMATION >

[con]	А
BB6 INSIDE REY ANTENAA (LUGGAGE ROOM) Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]  A03FW  A03FW  A03FW  A03FW	В
BB6   BS20   B	С
1   R   2   G   Connector No.   Connector No.   Gornector Type   No.   of Wire   1   W   2   B   Connector Type   Gornector	D
offication]  offication]  offication]	Е
Signal Nane [Specification] Signal Nane [Specification] Signal Nane [Specification] Signal Nane [Specification] Signal Nane [Specification]	F
Name   Name	G
Commector  Commector  Commector  Commector  Commector  Commector  Commector  Commector  Commector  A. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Н
Signal Name [Specification]  -[Without rear view camera] -[Without rear view camera] -[Signal Name [Specification] -[Signal Name [Specification]	I
B59 REAR COMBINATION LAMP RH INSOMMY-CS Signal Name [Specifica -[Without rear view cam -[Without rear	J
Connector No. BR. Color No. Connector No. Color  K	
	INL
Color   CONTROL MODULE)   Connector No.   Bis   Connector No.   Connector No	M
11   10   8   1   1   10   1   1   1   1   1   1	N
Connector Name   Conn	0
JCMWM4870GB	Р

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Connector No. D6 Connector Name POWER WINDOW MAIN SWITCH Connector Type NSG3FW-CS  H.S.	Terminal   Color   Signal Name [Specification]   No.   of Wire   Signal Name [Specification]   17   E	76 B	No. of Wire   1   V	
16 V/R	W W W WINDOW MAIN	Connector Type   NS16FW-CS	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   2   W   -	8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10
2 B		Terminal Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]	Connector No. B452 Connector Name DRIVER SEAT CONTROL UNIT Connector Type TH32FW	22  22  20  31  22  26  [114  18  16  29
BCM (BODY CONTROL MODULE) Connector No. B21 Connector Name REAR DOOR SWITCH RH Connector Type A03FW    1   2   2   2   2	Terminal   Color   Signal Name [Specification]   Color   No.   of Wire   Color   Col	inal C		Connector Type   NS (0FW-CS)   Connector Terminal   Color
JCMWM4871GB

## < ECU DIAGNOSIS INFORMATION >

	Α
REAR POWER WINDOW SWITCH LH INSOBFW-CS  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	В
NSOBSH   N	С
Connector No.  Connector Type  Terminal Color  No.  Connector Type  Connector No.   D	
Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer) Singer Switting (Singer)	Е
PROUT OUTSIDE HANDLE BH (REQUEST SWITCH)  Signal Name [Specification]	F
	G
Commetter Name   Comm	Н
11   12   13   14   15   6   7   11   12   13   14   15   6   7   11   12   13   14   15   6   7   11   12   13   14   15   6   7   11   12   13   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   14   15   6   7   15   15   15   15   15   15   15	I
1   2   3   4	J
Connector No.   Downector No.   Downector Name   Fig.	K
Sentonia de la companya della companya della companya de la companya de la companya della compan	INL
Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	M
	Ν
Connector No.  Connector No.  Connector Type  Connector Type  Connector No.  Conn	0
JCMWM4872GB	Р

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Do 179  Commector No. D186  Commector No. D186  Commector Name Buck DOOR OPENER SWITCH ASSEMBLY  Commector Type ITHOMAW-NH  Commector Type ITHOMAW-NH  TIPE 2 3  THAT 2 3 4	Color   Signal Name [Specification]   No.   Of Wire   Signal Name [Specification]   No.   Of Wire   Signal Name [Specification]   No.   Of Wire   0 Wire 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Terminal   Color   Signal Name [Specification]   Connector No.   Connector No.   Connector No.   Connector Name   Connector Name   Connector Name   Connector Name   LUGAGE ROOM LAMP LH   Connector Name   LUGAGE ROOM LAMP LH   Connector Type   H.S.	Terminal   Color   No. of Wire   Signal Name (Specification)   1   0   0   1   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   2	
BCM (BODY CONTROL MODULE) Connector No. D103 Connector Name REAR POWER WINDOW SWITCH RH Connector Type INSOBEW-CS	Color of Wire P P P P P P P P P P P P P P P P P P P	Terminal   Golfor   Signal Name [Specification]

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## < ECU DIAGNOSIS INFORMATION >

6   W   WSS FR SIG(-)	
100   G   VEHCAN-I     100   G   VEHCAN-I     100   G   VEHCAN-I     100   G   CINDA-APSZ     100   SB   CINDA-T-PEZ     101   SB   CINDA-T-PEZ     102   V   VBR T     103   SB   CINDA T     104   SB   CINDA T     106   SB   CINDA T     107   B   CIND     108   B   CIND     109   W   CINDC     110   G   CINDC     111   B   CIND     100   CINDC     112   B   CINDA T     100   CINDA T     113   CINDA T     100   CINDA T     114   CINDA T     100   CINDA T	
Connector No.   E11   Connector Name   Specification   Connector Name   Signal Name   Specification   Connector Name   Signal Name   Specification   Connector Name   Connecto	
Connector Name   E10	JCMWM4874GB

Revision: 2009 September INL-87 2010 Murano

Signal Name (Seechastran)	$^{\circ}$	Terminal Color Signal Name [Specification]	П		9 1	Н	K-LINE K-LINE	П
Signal Name (Septication)   Triming (South LAMP INT)   Triming (South LAM	Connector Name STOP LAMP SWITCH	or wire	Connector Name ENGINE ROOM)	POWER DISTRIBUTION MODULE	` ∞	w %/9		Τ
Signal Name (Specification)   Trained (Spe	Connector Type M04FW-LC	1	П	M4	6	L/R		
1   2   2   2   2   2   2   2   2   2		- 9	á		10	H		
Signal Name   Secretarion   Annual Secretarion		<b>5</b>	CHI-		= ;	+		T
1   2		Γ	Ш		5 5	$^{+}$		T
1   2	3 4	Т	59 54 55 56 57 58 697071 47 48 49 50 51 52 50 60 60		15	+		T
Signal Name (Specification)   Terminal Colors   Colors	1 2				19	H		
Signal Name (Specification)   Terminal Color   Signal Name (Specification)   Terminal Color   Signal Name (Specification)   Terminal Color   Signal Name (Specification)   Terminal Color   Signal Name (Specification)   Terminal Color   Terminal Color   Signal Name (Specification)   Terminal Color   Terminal Co		П			20	$\dashv$		
Signal Name (Specification)   Alt			ŀ		52	+		1
Francisco   Colorester Name   Specification   Colorester Name   Specification   Colorester Name   Specification   Colorester Name   Specification   Colorester Name   Colore			Color	Name [Specification]	56	+	4	T
Front Tourish Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Secretication   Front Name   Front Name   Secretication   Front Name   Front Nam		HS.	of Wire		27	+		T
Front Combination   Color   Front Color   Co	× 2		+		50	$^{+}$		T
Fig. 18   Commodar Name   Specification   Fig. 18   Commodar Name   Specification   Fig. 18   Commodar Name   Specification   Fig. 18   Commodar Name   Specification   Fig. 18   Commodar Name   Specification   Fig. 18   Commodar Name   Specification   Fig. 18   Commodar Name   Specification   Fig. 18   Commodar Name   Specification   Fig. 18   Commodar Name   Co			H	-	38	H		Ι
E318   Color			┝	ı	31	L	CAN-L	Γ
Fig. 18   Fig.			H	1	32	_	CAN-H	Γ
FRONT COMBINATION LAMP EH   Connector No.		Color	┝	1	33	H	PRI SPEED SENSOR	Γ
Front Combination Living Eth   Front Eth   Front Combination Living Eth   Front Combination	Connector No. E318	of Wire	H	1	34	Н		
Signal Name   Specification			Н	-	37	Н		П
Signal Name   Specification   Colorector No.   E228		Н	Н	-	38	Н		
Signal Name (Specification)	Connector Type Z03FBR		Ц	-	39	Н		
Signal Name   Specification   Turning   Connector Name   Connect		ſ	+	1	40	┪	PL LINEAR SOL	I
Signal Name   Specification		Т	+	1	45	+	GND	T
Signal Name [Specification]   Terminal   Color   Terminal   Color			+	i	46	+		T
Signal Name [Specification]		┱	+	ı	47	+		T
Signal Name [Specification]	((3 2 1))	П	+	1	48	>	VIGN	1
Signal Name   Specification		4	+	1				
Signal Name [Specification]		THE THE THE THE THE THE THE THE THE THE	4	1				
Signal Name [Specification]   Connector No.   F23   Connector No.   F23   Connector No.   F23   Connector No.   F24   Connector No.   F25   Connector No.   F25   Connector No.   Connector Name   Connector Nam		HS.						
Terminal Color   Terminal Color   Color   Signal Name [Specification]   Color   Colo			Г					
Town read   Connector Name   Connector Name   Town (Translussission Connector Name   No. of Wire   Color			Т					
Terminal Odor   Signal Name [Specification]		)		IN CONTROL MODULE)				
Terminal   Color   Signal Name [Specification]   Color   Signal Name [Specification]   Color		<u>le</u>	Т	Ha				
FRONT COMBINATION LAMP RH			٦.					
FFONT COMBINATION LAMP RH  FROM T COMBINATION LAMP RH  SIZER REPORT COMBINATION LAMP RH  TO STATE STAT		of Wire Signal Name [Specification]						
FRONT COMBINATION LAMP RH	ı							
From Lower Per		9 8	31 32 33 34 35 36	38 39 40 47				
1   2   3   5   5   5   5   5   5   5   5   5			27 47 07	20 29 30 40				
Terminal Color   No. of Wire   1   P.B	Connector Type Z03FBR		0 4 5	10 19 20 43				
Color of Wire P/B P/L G/O GR	ı		0 6 4 0	1+ 01 6 0				
Color of Wire P/B P/L G/O GR								
of Wire P/B P/L G/O GR		<u>L</u>	Color	Nama [Spacification]				
P/B P/L G/O GR B			of Wire	value [Specification]				
P/L G/O GR B	(3 2 1)		1 P/B	INH SW 2				
G/O GR B			H	INH SW 3				
GR B			0/5	INH SW 4				
8			GR	NH SW 3 MON				
1			5 B	GND				

JCMWM4875GB

Connector No. M19 Connector Name THE PRESSURE WARNING CHECK SWITCH Connector Type TK02FW	Terminal   Color   Signal Name [Specification]				A B C
Connector No. MI2 Connector Name STEERING LOCK UNIT Connector Type TH08FW-NH  M.S. 4 3 2 1  8 7 6 5	Terminal   Color   Signal Name   Specification   No. of Wire   Signal Name   Specification   2   S. L. I.2V MECHANGAL(VI)   2   S. L. COM   S. L. COM   S. S. L. COM   S. S. L. COM   S. S. L. S. L. COM   S. S. L. S.	Connector No. M17 Connector Name OPTICAL SENSOR Connector Type TK03FW  H.S.	Terminal   Color   Signal Name [Specification]   No. of Wire   V   1   V   2   2   0		E F G
Connector No. M3  Connector Name FUSE BLOCK (J/B)  Connector Type NSIZFW-CS  MSIZFW-CS  EST SC 2C 1C  12C 11C 10G 9C 8C 7C 8C	Terminal         Color         Signal Name [Specification]           No.         of Wire         -           7C         B         -           8C         G         -           9C         GR         -           10C         SB         -           11C         R         -           12C         O         -	Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW  Connector Type B	Terminal Color No. of Wire 5 B		J K
BCM (BODY CONTROL MODULE)  Connector Name FUSE BLOCK (J/B)  Connector Type NSOBFW-M2  MS 3A 2A 2A 1A 8 8 A 7A 6A 5A 4A	Terminal   Color   Signal Name [Specification]   1	Connector No M2 Connector Name FUSE BLOCK (J/B) Connector Type NS10FW-CS  H3  HB 3B	Terminal Color No. of Wire Signal Name (Specification) 18 W - 3B L - 5B L - 5B Y - 7B R - 9B R - 9B GR -	JCMWM4876GB	M N

BCM	BCM (BODY CONTROL MODULE)	MODULE)									
Connector No.	- No. M34		Connector No.	П	M45	39 B	BNE		Connector No.	M99	П
Connector Name	Name COMBINATION METER		Connector Name		HAZARD SWITCH	40	BAT		Connector Name	KEY SLOT	
Connector Type	Type TH40FW-NH		Connector Type	Т	TK04FW				Connector Type	TH12FW-NH	Т
<b>4</b>			<b>1</b>			Connector No.	П		1		ı
E			E STATE OF THE PARTY OF THE PAR			Connector Name	e CVT SHIFT SELECTOR		=		
2			ė E			Connector Type	e TK10FW		2	,	
	1 2 3 4 5 6 7 8 9 10 11 12 15 21 22 23 24 25 26 27 28 29 30 31 32 33	13 14 15 16 17 18 19 20 33 34 35 36 37 38 39 40			3 1 2 4	匮				7 8 9 10 11 12	
						HS.	13 7 19				
Terminal No.	Color Signal Name [	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]		2 4 5 6 8		Terminal Color No. of Wire	Signal Name [Specification]	
-	Y BAT	4T	-	В	1				- GR	BAT	Т
2		IGN	2	ŋ	1	ŀ			Н	CLOCK	П
က		GROUND	က	œ	1	lal	or Signal Name [Specification]	lion	3	DATA	_
4		DND	4	SB	I	No. of Wire			+	ILL BAT	_
2	2	ON CONTROL				-			9	ILL	_
ω σ	SB TRIP RESET SWIT	TRIP RESET SWITCH	Connector No.	Г	M50	4 9	9 0		7 II	GND KFY SWITCH SIGNAL	_
2	-	BOI SW GND		Т		+					1
=	<u> </u>	ENTER SWITCH	Connector Name		A/C AUTO AMP.		1				
12	R SELECT	SELECT SWITCH	Connector Type	Г	SAB40FW	6	_		Connector No.	M100	г
13	V ILLUMBATION CONTROL SWITCH (+)[With automatic drive positions	(+)[With automatic drive positioner]	(	1					١,	CANAL GOTACIGNI VEIGILORS	_
13	ILLL	(4)[Without automatic drive positioner]	F							SECURITY INDICATOR LAMP	_
14	ILLUMINATION	NTROL SWITCH (-)	N I			Connector No.	M78		Connector Type	TK02FBR	П
15	BR AIR BAG	BAG	2	,		Connector Name	REMOTE KEYLESS ENTRY RECEIVER	SEIVER	ą		
82 9	+	AMBIENT SENSOR		21 22 23 24 25 26 27	28 29 30 31 32 33 34 35	H	Т		厚		
8 6	AMBIENT SEN	AMBIENT SENSOR POWER				Connector Type	JAB04FB		H.S.		
21	_	CAN-H				1				,	
22	P	CAN-L	Terminal	Color	2					7	
23	B GRO	GROUND	No.	of Wire	Signal Name [Specification]	ė E					
24	W FUEL LEVEL SE	FUEL LEVEL SENSOR GROUND	_	٦	CAN-H		1 2 3 4				
25	BR	CHG	2	Д	CAN-L				Terminal Color	Signal Name [Specification]	
56	_	PARKING BRAKE SWITCH	9	7	TX(AMP>SW&DISP)				No. of Wire	T. C.	_
27	V BRAKE FLUID LEVEL SWITCH	LEVEL SWITCH	<u>ر</u>	- ۵	RX(SW>AMP)	Torminal	L		- °	11 1	_
67	ľ	CD (9-DIII OF)	2 =	,	WACTB		of Wire Signal Name [Specification]	ation]	1		7
3 8	-	FD (8-PUI SF)	5	ź 0	SIN SENS	t	GN9				
32	LG OD OFF/SPORTS	SPORTS	91	9	INTAKE SENS	2 P	8				
34		FUEL LEVEL SENSOR	17	~	ACC	4	+12V				
32	SEAT BELT	SWITCH (DRIVER SIDE)	61	В	GND						
98	Г	(TCH (PASSENGER SIDE)	70	g	NBI						
			56	GR	RR DEF F/B						
			27	BR	RR DEF ON						
			32	_	FAN PWM						
			34	۵	AMB POWER						
			32	-	AMB SENS						
			36	9	INCAR SENS						
			37	<b>&gt;</b>	SENS GND						

JCMWM4877GB

## < ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE) Connector Name PUSH-BUTTON IGNITION SWITCH Connector Type TK08FBR  TK08FBR	Connector No. MI18 Connector Name BCM (BODY CONTROL MODULE) Connector Type MOSPB-LC	Connector No. MI20  Connector Type NSI2FW-CS  H.S.  20 21 22 23 24  25 26 27 28 29 30 31	Connector No. M122 Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FB-NH  H.S. BENN BENN BENN BENN BENN BENN BENN BEN			
Terminal   Color   Signal Name (Specification)   No.   OWNER   Signal Name (Specification)   S	Connector No.   Color   Signal Name (Specification   Color   No.   Color   Connector No.   Connector No.   M119   Color   Signal Name (Specification)   No.	Color   Color   Signal Name [Specification]   Color   Face   Color	JCMWM4878GB			

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## < ECU DIAGNOSIS INFORMATION >

BCM (B(	BCM (BODY CONTROL MODULE)	ON TOPOGRAP	Γ	2017	N setocoro	NAME	c
COLLEGED NO.	т		Т	1011	COLLEGE NO.	C+1M	
Connector Name	ne BCM (BODY CONTROL MODULE)	Connector Name		AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAVIGATION SYSTEM)	Connector Name	e AV CONTROL UNIT (WITH NAVIGATION SYSTEM)	
Connector Type	re TH40FG-NH	Connector Type	П	TH32FW-NH	Connector Type	TH40FW-NH	Connector No. R10
修		匮			修		Connector Name VANITY MIRROR LAMP (PASSENGER SIDE)  Connector Type MCA02FW
Z   131   13	0.129 128 127 128 125 124 129 129 129 129 129 129 129 129 129 129	į	91 90 89		\$ E	26 28 38 38 38 38 40 42 44 46 48 50 59 54 56 58 80	1
151	io स्थापक कि कि कि कि कि कि कि कि कि कि कि कि कि		107 108 105	104 103 102 101 100 99 98 97 96 95	12	35 37 39 41 43	S.
Terminal Color No. of Wire	olor Nire Signal Name [Specification]	Terminal (	Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	or Signal Name [Specification]	2
Н	R RAIN SENSOR SERIAL LINK	79	7	TEL VOICE SIGNAL (-)	21 B		
$\dashv$	0	Ħ	2	TEL VOICE SIGNAL (+)	$\dashv$	B/	la
911	GR FUSE CHECK	8 8 8	SHIELD	SOUND SIGNAL BH ()[With DVD player]	23 B	GND BATTERY	No. of Wire
L	W DR DOOR UNLOCK SENSOR	85	T	iPod SOUND SIGNAL RH (-) [Without DVD player]	25 R		2 P/W –
121 Y	Y KEY SLOT SW	83	П	SOUND SIGNAL RH (+)[With DVD player]	26 B		
Ц		83	П	iPod SOUND SIGNAL RH (+) [Without DVD player]	ς		
124 R	R PASSENGER DOOR SW	82	<u>а</u>	GND	+	MICRO	Connector No. R19
+	BR REAR DEFOGGER SW C DOWED WINDOW SW COMM	88		CAN-H	35	IGNITION DADKING BDAKE	Connector Name MAP LAMP
╀	PUSH	88	œ	AV COMM (H)	Ļ		Connector Type TK06FGY
Н	H	88	٦	AV COMM (L)	H		1
4	P RECEIVER/SENSOR GND	06	ŋ	AV COMM (H)	_	CON	医
4	쮼	91	7	AV COMM (L)	+		[ <u>s</u>
+	1	98	2 (	AUX SOUND SIGNAL RH (+)	+	ō	
141	GR SECURITY INDICATOR OUTPUT	96	20 25	AUX SOUND SIGNAL LH (+)	48 49	AV COMM (1)	6 5 4 3 2 1
╀	L	86	. 0	SOUND SIGNAL LH (-)[With DVD player]	50 R		
Н	W COMBI SW OUTPUT 1	86	Ħ	Pod SOUND SIGNAL LH (-)[Without DVD player]	Н		
	P COMBI SW OUTPUT 2	66	T	SOUND SIGNAL LH (+)[With DVD player]			la.
145	COMBI SW OUTPUT 3	66	-	iPod SOUND SIGNAL LH (+)[Without DVD player]	53 P	CAN-L	0
ļ	W TIRE PRESS WARNING CHECK SW	+	SHIELD	SHIELD[With DVD player] SHIELD [Without DVD player]			2 ×
┞	L	T	>	SW GND	Connector No.	M262	3 B
151 G	G REAR WINDOW DEFOGGER RELAY	103	W	EJECT SIGNAL	Connector Name	INSIDE KEY ANTENNA (GONSOI E)	4 SB –
		104	<u>ص</u> ا	IGNITION		Т	+
		90	9 6	REVERSE PARKING BRAKE	Connector Type	KKUZFGY	8 K/L = =
		107	>	VEHICLE SPEED (8-PULSE)	1		
			1		H.S.	<u>₹</u>	
					Terminal Golor No. of Wire 1 W	or Signal Name [Specification]	

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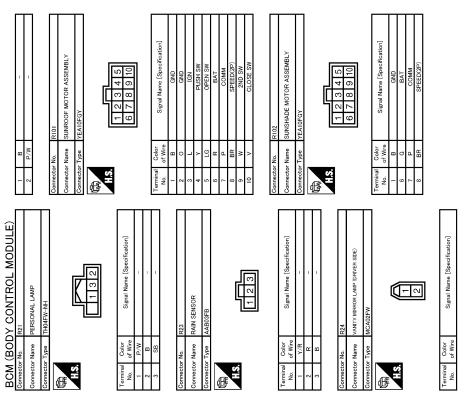
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Fail-safe

### FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
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 → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
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
B2601: SHIFT POSITION	Inhibit steering lock	<ul> <li>500 ms after the following signal reception status becomes consistent</li> <li>Selector lever P position switch signal</li> <li>P range signal (CAN)</li> </ul>
B2602: SHIFT POSITION	Inhibit steering lock	<ul> <li>5 seconds after the following BCM recognition conditions are fulfilled</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P position switch signal: Except P position (battery voltage)</li> <li>Vehicle speed: 4 km/h (2.5 MPH) or more</li> </ul>
B2603: SHIFT POSI STATUS	Inhibit steering lock	<ul> <li>500 ms after the following BCM recognition conditions are fulfilled</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P position switch signal: Except P position (battery voltage)</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> </ul>
B2604: PNP SW	Inhibit steering lock	<ul> <li>500 ms after any of the following BCM recognition conditions are fulfilled</li> <li>Status 1</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P/N position signal: P and N position (battery voltage)</li> <li>P range signal or N range signal (CAN): ON</li> <li>Status 2</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> <li>P range signal and N range signal (CAN): OFF</li> </ul>
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled  • Ignition switch is in the ON position  - Power position: IGN  - Selector lever P/N position signal: Except P and N positions (0 V)  - Interlock/PNP switch signal (CAN): OFF  • Status 2  - Ignition switch is in the ON position  - Selector lever P/N position signal: P or N position (battery voltage)  - PNP switch signal (CAN): ON
B2606: 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>

#### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
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	<ul> <li>500 ms after the following signal communication status becomes consistent</li> <li>Starter motor relay control signal</li> <li>Starter relay status signal (CAN)</li> </ul>
B2609: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
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)
B2612: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When any of the following conditions are fulfilled  Steering lock unit status signal (CAN) is received normally  The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
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
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled  • Steering condition No. 1 signal: LOCK (0V)  • Steering condition No. 2 signal: LOCK (Battery voltage)

#### 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.

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### < ECU DIAGNOSIS INFORMATION >

- 2. Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

## DTC Inspection Priority Chart

INFOID:0000000005681431

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	<ul> <li>B2190: NATS ANTENNA AMP</li> <li>B2191: DIFFERENCE OF KEY</li> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> <li>B2195: ANTI SCANNING</li> </ul>
4	B2013: ID DISCORD BCM-S/L  B2014: CHAIN OF S/L-BCM  B2553: IGNITION RELAY  B2555: STOP LAMP  B2555: PUSH-BTN IGN SW  B2557: VEHICLE SPEED  B2560: SHIFT POSITION  B2601: SHIFT POSITION  B2603: SHIFT POSITION  B2603: SHIFT POSITION  B2605: SNP SW  B2605: PNP SW  B2606: S/L RELAY  B2606: S/L RELAY  B2607: S/L RELAY  B2608: STARTER RELAY  B2609: S/L STATUS  B2608: STERING LOCK UNIT  B2600: STEERING LOCK UNIT  B2600: STEERING LOCK UNIT  B2607: STATE SIG LOST  B2611: S/L STATUS  B2612: S/L STATUS  B2613: S/L STATUS  B2614: ACC RELAY CIRC  B2615: BLOWER RELAY CIRC  B2616: IGN RELAY CIRC  B2616: BCM RELAY CIRC  B2617: STARTER RELAY CIRC  B2618: BCM  B2618: PSCM  B2618: PSCM  B2618: PSCM  B2618: PSCM  B2618: PSCM  B2619: SCM  B2616: VEHICLE TYPE  B2626: S/L STATUS  B2626: KEY REGISTRATION  C1729: VHCL SPEED SIG ERR  U0415: VEHICLE SPEED SIG

# < ECU DIAGNOSIS INFORMATION >

Priority	DTC
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>C1719: [PRESSDATA ERR] RL</li> <li>C1734: CONTROL UNIT</li> </ul>
6	B2622: INSIDE ANTENNA     B2623: INSIDE ANTENNA

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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 <a href="INL-13">INL-13</a>, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

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
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-38
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-39
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40
B2013: ID DISCORD BCM-S/L*	×	×	_	_	SEC-51
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-52
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-43
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-46
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-47
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-49
B2195: ANTI SCANNING	×	_	_	_	<u>SEC-50</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	SEC-55
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-57
B2557: VEHICLE SPEED	×	×	×	_	SEC-59
B2560: STARTER CONT RELAY	×	×	×	_	SEC-60
B2562: LOW VOLTAGE	_	×	_	_	BCS-41
B2601: SHIFT POSITION	×	×	×	_	SEC-61
B2602: SHIFT POSITION	×	×	×	_	SEC-64
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-66
B2604: PNP SW	×	×	×	_	SEC-69

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## < 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
B2605: PNP SW	×	×	×	_	SEC-71
B2606: S/L RELAY*	×	×	×	_	SEC-73
B2607: S/L RELAY*	×	×	×	_	SEC-74
B2608: STARTER RELAY	×	×	×	<del>_</del>	SEC-76
B2609: S/L STATUS*	×	×	×	_	SEC-78
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260B: STEERING LOCK UNIT*	_	×	×	_	SEC-82
B260C: STEERING LOCK UNIT*	<del>_</del>	×	×	_	SEC-83
B260D: STEERING LOCK UNIT*	<del>_</del>	×	×	_	SEC-84
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-85
B2612: S/L STATUS*	×	×	×	<del>_</del>	SEC-88
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55
B2616: IGN RELAY CIRC	<del>_</del>	×	×	<del>_</del>	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-92
B2618: BCM	×	×	×	_	PCS-61
B2619: BCM*	×	×	×	_	SEC-94
B261A: PUSH-BTN IGN SW		×	×	_	SEC-95
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-98
B2622: INSIDE ANTENNA	_	×	_	_	DLK-91
B2623: INSIDE ANTENNA	_	×	_	_	DLK-93
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	SEC-86
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-87
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	WT 25
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-25</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	\A/T 27
C1710: [NO DATA] RR	_	_	_	×	<u>WT-27</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	MAT OO
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-30</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-32</u>
C1734: CONTROL UNIT	_	_	_	×	WT-34

#### NOTE:

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<sup>\*:</sup> For models without steering lock unit this DTC is not applied.

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## **COMBINATION METER**

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### VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading <b>NOTE:</b> 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 NOTE: 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
ABS W/L	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
V DC/ 1 CO IND	ON	VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch	SLIP Indicator lamp ON	On
	ON	SLIP indicator lamp OFF	Off
BRAKE W/L	Ignition switch	Brake warning lamp ON	On
	ON	Brake warning lamp OFF	Off
DOOR W/L	Ignition switch	Door warning lamp ON	On
	ON	Door warning lamp OFF	Off
HI-BEAM IND	Ignition switch	High-beam indicator lamp ON	On
	ON	High-beam indicator lamp OFF	Off
TURN IND	Ignition switch	Turn signal indicator lamp ON	On
	ON	Turn signal indicator lamp OFF	Off
LIGHT IND	Ignition switch	Light indicator lamp ON	On
	ON	Light indicator lamp OFF	Off
OIL W/L	Ignition switch	Oil pressure warning lamp ON	On
· -	ON	Oil pressure warning lamp OFF	Off
MIL	Ignition switch	Malfunction indicator lamp ON	On
-	ON	Malfunction indicator lamp OFF	Off
CRUISE IND	Ignition switch	CRUISE indicator lamp ON	On
	ON	CRUISE indicator lamp OFF	Off

Monitor Item		Condition	Value/Status
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
4)A/D \A//	Ignition switch	AWD warning lamp ON	On
4WD W/L	ON	AWD warning lamp OFF	Off
AND LOCK IND	Ignition switch	AWD LOCK indicator lamp ON	On
4WD LOCK IND	ON	AWD LOCK indicator lamp OFF	Off
	Ignition switch	Low-fuel warning lamp ON	On
FUEL W/L	ON	Low-fuel warning lamp OFF	Off
WACHED W//	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	ON	Low tire pressure lamp OFF	Off
VEV C/V W/I	Ignition switch	Key warning lamp (green/yellow) ON	On
KEY G/Y W/L	ŎN	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
LOD	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
	Ignition switch	Shift position indicator R display	R
SHIFT IND	ON ON	Shift position indicator N display	N
		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 OIT SVV	ON	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

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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
PKB SW	ON	Parking brake switch OFF	Off
DLICKI E CW	Ignition switch	Seat belt (driver side) not fastened	On
BUCKLE SW	ON	Seat belt (driver side) fastened	Off
DDAVE OIL OIV	Ignition switch	Brake fluid level switch ON	On
BRAKE OIL SW	ŎN	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 AIMP CONN	ON	Receives ambient sensor power signal	Off
ENTER SW	Ignition switch	When $\square$ is pressed	On
	ON	Other than the above	Off
OFLECT OW	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 OLD	Ignition switch	Low fuel warning displayed	On
FUEL LOW SIG	ŎN	Low fuel warning not displayed	Off
DUZZED	Ignition switch	Buzzer ON	On
BUZZER	ŎN	Buzzer OFF	Off

### NOTE:

Some items are not available according to vehicle specification.

### **TERMINAL LAYOUT**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

PHYSICAL VALUES

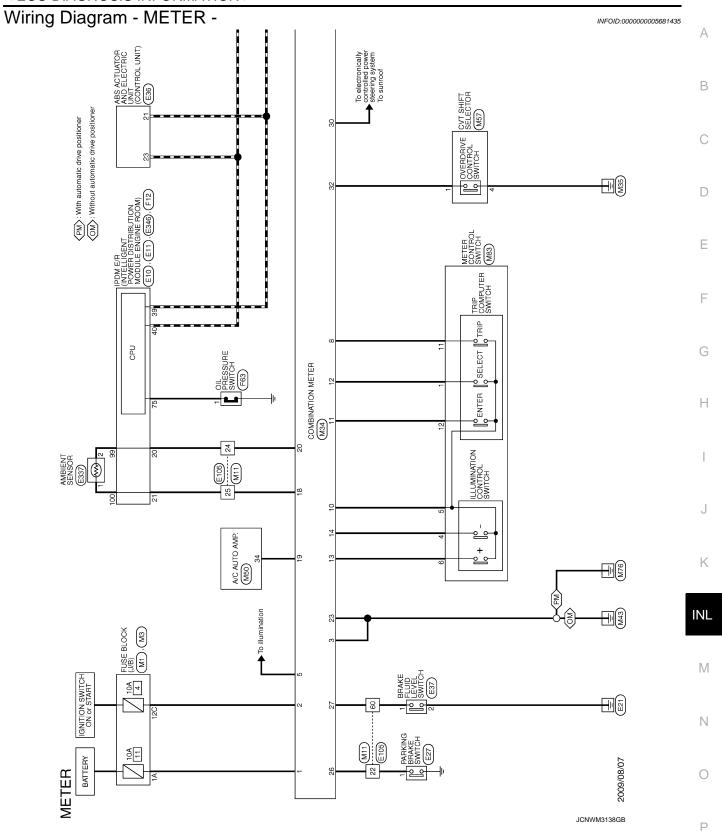
	nal No.	Description			O tri	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
2 (O)	Ground	IGN signal	Input	Ignition switch ON	_	Battery voltage
3 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
5	Ground	Illumination control signal	Output	Ignition switch	Lighting switch 1ST     When meter illumination is maximum	(V) 15 10 5 0 10 ms JPNIA0828GB
(SB)	Glound	inumination control signal	Output	ON	Lighting switch 1ST     When meter illumination is minimum	(V) 15 10 5 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 $\square$ is pressed.	0 V
(L)	(0)			ON	Other than the above	5 V
12 (R)	10 (O)	Select switch signal	Input	Ignition switch	When is pressed.	0 V
13	, ,			ON	Other than the above	5 V
(Y <sup>*1</sup> or	10 (O)	Illumination control switch signal (+)	Input	Ignition switch	When 💏 is pressed.	0 V
V*2)	(-)	,		ON	Other than the above	5 V
14 (GR)	10 (O)	Illumination control switch signal (-)	Input	Ignition switch	When $\mathfrak{C}^{*}$ is pressed.	0 V
	` '			ON	Other than the above  Air bag warning lamp	5 V
15 (BR)	Ground	Air bag signal	Input	Ignition switch ON	ON  Air bag warning lamp OFF	4 V 0 V

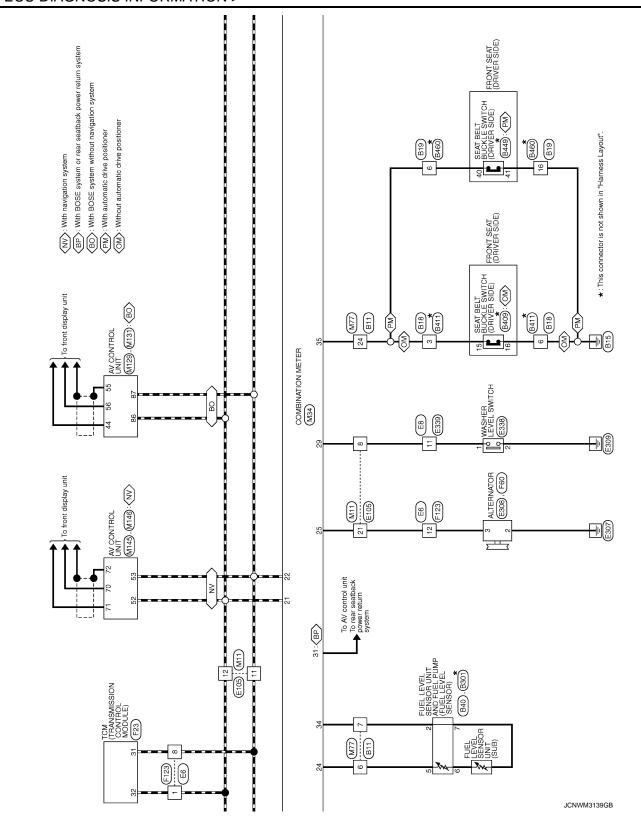
	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
18 (L)	Ground	Ambient sensor signal	Input	Ignition switch ON	Changes depending to ambient temperature.	(V)  3  2  1  0  -10  0  10  0  0  0  0  0  0  0  0  0  0
19 (P)	Ground	Ambient sensor power	Input	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	Ground	Parking brake switch signal	Input	Ignition switch	Parking brake ON	0 V
(G)	Ground	T arking brake switch signal	iliput	ON	Parking brake OFF	5 V
27	Ground	Brake fluid level switch sig-	Input	Ignition switch	Brake fluid level is normal Brake fluid level is less than	12 V
(V)	2.333	nal		ON	LOW level	0 V
29	Ground	Washer level switch signal	Input	Ignition switch	Washer level switch ON	0 V
(R)			7	ON	Washer level switch OFF	5 V
30 (P)	Ground	Vehicle speed signal output (2-pulse)	Output	Ignition switch	Speedometer operated [When vehicle speed is ap-	NOTE: The maximum voltage varies depending on the specification (destination unit).
\· /		(2 paiso)		ON	prox. 40 km/h (25 MPH)]	0 50 ms JSNIA0015GB

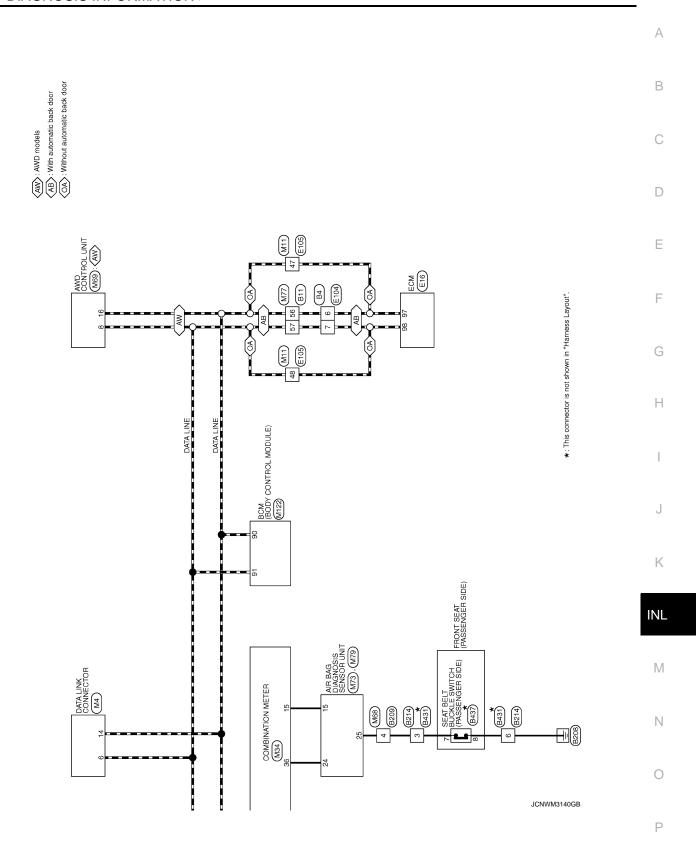
	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
31 (V)	Ground	Vehicle speed signal output (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
						20 ms JSNIA0012GB
32	0	Overdrive control switch	la a t	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	Ground	Seat belt buckle switch sig-	Input	Ignition switch	When driver seat belt is fastened.	12 V
(SB)	Ground	nal (driver side)	IIIput	ON	When driver seat belt is unfastened.	0 V
36	Ground	Seat belt buckle switch sig-	Input	Ignition switch	<ul><li>When getting in the passenger seat.</li><li>When passenger seat belt is fastened.</li></ul>	12 V
(R)	Giodila	nal (passenger side)	mput	ON	<ul><li>When getting in the passenger seat.</li><li>When passenger seat belt is unfastened.</li></ul>	0 V

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

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







### < ECU DIAGNOSIS INFORMATION >

Connector No.	B4	7	>	1	63	re	1		-	BR	1
Connector Name	WIRE TO WIRE	8	SHIELD	-	64	$\dashv$	1		2	В	1
OOLIIGOOO Maliig	אוויב וס אוויב	6	BR/L	-	99	GR	-		3	GR	_
Connector Type NS16MW-CS	NS16MW-CS	10	Y/G	_	67	9	_		4	0	_
4		11	J/Y	1	89	_	-		2	5	-
修		12	T/M	-	69	,	-		9	B/W	-
Ę		13	٦	-	70	W/R	-				
112	1 2 3 - 4 5 6 7	14	BR	-	71	B/R	-				
Ια	10 11 10 12 17	12	SB	-	72	$\dashv$	-		Connector No.	- 1	B19
<u>1</u> ]	9 10 11 2 11 01 6	16	BR	-	73	4	-		-connor	or Name	Connector Name WIRE TO WIRE
		17	>	1	74	SB	1				
		18	SB	_	75	٦	-		Connect	or Type	Connector Type NS16FW-CS
la	Simal Name [Specification]	19	۳	_	76	g	-		4		
No. of Wire	organi rame [openication]	20	۵	_	77	œ	-		厚		
1 SB	-	21	ΓC	-	78	SHIELD	-		Ę	L	
2 W	1	22	Μ	-	79	_	1		1		1 2 3 4 6 7
3 W	1	23	<b>&gt;</b>	_	80	Н	-			1,	10 11 10 10 1
4	1	24	GR		81	œ	1			<u> </u>	9 10 11
2	1	25	>	1	82	H	1			I	
9	1	27	>	1	83	BR	1				
7 L	1	28	W/L	-	84	H	,		Terminal	Color	
8 B	1	30	<u>-</u>	1	82	g	1		N		Signal Name [Specification]
F	1	33	c	1	86	╀	1		-	BB	1
L	1	33	ä	1	87	α	1		~	-	1
-	1	34	ď	1	ä	╀			e	3	
╁	1	32	SHELD		8	╀	1		4		1
13		38	(		8	╀			ď	. >	
+		25	2 -		8 8	+			9	. a	
H	1	40	} >	,	92	, #a	1		^	6	1
L	1	4	С	1	93	H	1		00	>	1
1		42	SS	1	94	╀	1		6	۵	1
		43	3 6	1	9 8	F	1		9	<u> </u>	
Connector No	1941	2 2	, 8		S	╀			2 =	3 0	
Т		ļ.	<u> </u>		2 2	+			<u></u>	2 5	
Connector Name	WIRE TO WIRE	C+ 49	7 0		6 00	+	1		2 5	8	
Connector Type	OF SOUND OF THE OWNER OWNER O	\$ 5	5 >		8 8	3 0			2 2	9 8	
odi i abo	LIBOURIN CS18	÷	, 5		66				ţ	5	
<b>1</b>		\$ 6	5 0	-[with rear view camera and telephone]					0 4	5 0	1 1
事		49	<u></u>	Tarrelloa view carrella mercar colopione	Connec	Connector No.	B18		2	ò	
ź		20	SHIELD	-		:					
	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	51	m	1	Conne	ctor Name	Connector Name   WIRE   U WIRE				
	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	52	В	-	Conne	Connector Type	NS06FW-CS				
		23	>	-	q						
		24	ΓG	-	厚	_					
Terminal Color	Signal Name [Specification]	22	æ	ı		Ø					
No. of Wire		29	۵.	-		3	1 2				
رة الم		2)	_  °	1			3 4 5 6				
$^{+}$		e G	2 1				1				
3 R/L		60	SHIELD B								
t		90	٥			120					
000		5 8	2 2		lerminal N-	Tall Color	Signal Name [Specification]	[uoi			
0		70	K/W	1	Š	0 1410		]			

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# < ECU DIAGNOSIS INFORMATION >

eroce side)	А
SEAT BELT BLOCKLE SWITCH (PASSENGER SIDE) AGSMW-P  Signal Name (Specification)  SAGMW-P  AGGMW-P  AGGM	В
	С
Connector Name Connector Type  Terminal Color No. Granector Type Connector Name C	D
cification]	Е
Signal Name [Specification]	F
Oblor Name  Name  Name  Oblor	G
Terminal   No.   16   16   16   16   16   16   16   1	Н
WIRE CS Signal Name [Specification]  L SENSOR UNIT AND FUEL PUMP	I
B214 WIRE TO WIRE NS06FW-CS    3 4 5 6 6	J
Connector No.  Connector Name Connector Name  Terminal  One Connector No.  Connector No.	K
	INL
EUSFGV-RS    EUSFGV-RS    EUSFGV-RS    EUSFGV-RS    Signal Name [Specification]	M
	N
METER	0
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	P

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METER Connector No.   R460	10 W	15 W	Connector No.	H.
Je .	+	H	Connector Name	ECM
Connector Type NS16MW-CS	Н	20 L -	Connector Type	RH24FB-RZ8-L-LH
	0	S 8S	6	
5		GR	S	81 85 89 93 97 101 105 109
7 6 5 6 4 3 2	Connector No. E8	24 G = 25 GR = -		82 86 90 94 98 102 106 110
16 15 14 13 12 11 10 9 8	Connector Name WIRE TO WIRE	Н		84 88 92 96 100 104 108 112
	Connector Type NS12MBR-CS	27 W =	•	
Terminal Color Signal Name [Specification]	₫.	BR :	Terminal Color	Signal Name [Specification]
	AHT	33 C	t	APS1
2 P -	103 145	┞	┝	APS2
Н	8 9 10 11	a (	H	AVCC1-APS1
5 BR		38 GR	985 G	ASCD SW
H		┨	. SB	FTPRES
Н	la l		Н	AVCC2-APS2
	9	Connector No. E11	88	KLINE
+	GR	Connector Name Prome Connector Name	+	AVCC2-FTPRES
L/0	SB	П	+	GNDA-ASCDSW
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	+	Connector Lype TH08FW-NH	93 88 88	IGN SW
	ງ ≥		+	TE
H	H		96 GR	GNDA-FTPRES
Ħ		7	H	VEHCAN-L
16 GR –		42 41 40 39	7 86	VEHCAN-H
	ſ	46 45 44 43	4	GNDA-APS2
Γ	Connector No. E10		+	NEUT-H
Т	Connector Name   IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE   ENGINE ROOM)	Tarminol	104 SB	GNUA-IF
Connector Name WIRE TO WIRE	Connector Type TH20FW-CS12-M4-1V	_	Ë	BRAKE
Connector Type TK16MGY-1V	4	39 P –	107 B	GND
á	10000000000000000000000000000000000000	40 L –	108 B	GND
医		+		CDCV
	9 10 11 12 13 14 25 26 27 28 29 30 31 32 33 38	SB	+	BNCSW
123 - 456	3 4 5 6 7 8 15161711819 2021222324 35 36	+	n c	GNO
8 9 10 11 12 13 14 15 16		M 0 }	112 B	GND
	la l	46 BR -		
Terminal Color Signal Name [Specification]	of Wire			
ot Wire	S);			
۷ >	- C - C			
2 4 CC	10 BR			
H	Н			
Н	12 B –			
- С	Н			

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26 B/W VALVE/ECU GND	Connector No.		BR
	Connecto	r Name WIRE TO WIRE	- d3 09
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Γ		1	- 17
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Т		9 9	H
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0	Terminal	Color	H
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)			1
	2	- BR	- N
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ot Wire	4		
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	80		Connector No. E308
	÷		Γ
	- -		Connector Name ALTERNATOR
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2	36		
	67		
	26		Color
	2		Signal Name   Specification
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	30		
	47		Connector No. E337
	I		T
	48		Consolor Name AMBIENT CENSOD
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	20		Connector Type RS02FB
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B/W	53		
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SB	54		
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	26		))
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*	09	^	
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_	- T		
>	62		Color
>	į		N Signal Name [Specification]
	63		oi wire
	64		1
	1		+
	g		-
1   1   1   1   1   1   1   1   1   1	Connector Name   BRAKE FLUID LEVEL SWITCH	E37	Connector Name   Conn

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		Connector Name         ALTERNATOR           Connector Type         HS03FB	1	643)	쿌		4 Y/B 5 SB	$\mathbf{I}$	Γ	Т	Connector Name OIL PRESSURE SWITCH	Connector Type E01FGY-RS-AR	1				)		No. of Wire Sprai Ivame Lypecmoation	1 LG =														
-	77 GR -	-	Connector No. F23  Connector Name TCM (TRANSMISSION CONTROL MODULE)	r Type RH40FB-RZ8-L-RH	11.5. 31 32 33 34 35 36 37 38 39 40 47 48 27 22 23 24 25 26 27 28 29 30 45 46 111 12 13 14 15 16 17 18 19 20 43 44	123456789104142	Terminal Color	of Wire Signal Na		3 G/O INH SW 3	GR	5 B GND	W SENSOR GND	L/R C	10 BR/R DATA I/O (SEL3)	V ATF	R/W	19 G/B REV LAMP RELAY	R/B	25 W/R SENSOR GND	R/G	R	0/B	G/R	32 L CAN-H	33 LG PRI SPEED SENSOR	LG/R	V/R	L/W	W/B	R/Y PLU	aa :	46 Y VIGN	Y \
	PLINGAL DISCERSION MODILE	IPDM E/R CHTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TH16FW—NH		96 95 94 93 92 91 104 103 102 101 100 99	Sienal Name [Specification]	,			1				a model record reliance during	JPDM E/R (IN ELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	A4			71/72/73 74/75/76/77/78 81 82 81 82 81 82	E CONTROL OF THE CONT		5	Signal Name [Specification]	_			-		1	ı	1	1	1		
ſ		Connector Name Engine ROOM) Connector Type TH16FW-NH	1	98 97 96 95 94 106105104103102	nal Color	of Wire	92 LG 99 BR	Н	+	102 B	1	N	Т		Connector Type TH20FW-CS12-M4	4	Š	59 54 55 56 57 58 6970/71/22/3 47 48 49 50 51 52 Felenkii RARA			Terminal Color	of Wire	48 W	+	52 Y/G	┝	H	Н	H	57 0	$\dashv$	1	70 0	75 LG

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# < ECU DIAGNOSIS INFORMATION >

	А
	В
	С
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offication)	Е
WIRE TO WIRE  TH70FW-CS10-M3  Signal Name (Specification)  Signal Name (Specification)	F
1 M M M M M M M M M M M M M M M M M M M	G
Connector No.	Н
Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	1
1	J
ector No.    No.	К
	INL
WIRE  13 12 11 10 9 8  13 12 11 10 9 8  Signal Name [Specification]	M
123 KIEF TO KI	N
METER	0
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# < ECU DIAGNOSIS INFORMATION >

METER		ď	:	Lead		ļ		[	-	a::0	
Connector No.	o. M34	Conne	Connector No.	MbU	9 1	1	1	= ;	ю ;	GND.	
Connector Name	ame COMBINATION METER	Conne	Connector Name	A/C AUTO AMP.	~ 8	א מ		4 9	- △	CAN-L	
Connector Type	pe TH40FW-NH	Conne	Connector Type	SAB40FW	6	>	1				
匮		Œ			2		vvi.	Connector No.		M73	
E E S E S E S E S E S E S E S E S E S E		ΗS		3 4 5 18 17 18 19 10 11 12 13 14 15 14 15 14 15 1	Connector No.	e e	MBS WIRE TO WIRE	Connec		AIR BAG DIAGNOSIS SENSOR UNIT	
- 51	25 26 27 28 29 30 31		2122	21 22 23 24 25 26 26 27 28 29 30 31 32 33 34 35 38 37 38 39 40	Connector Type	П	TK12FG-Y	Source Course	Connector Type	TK28FY-EX-SC	
					修			季	20 04	1177	
Terminal Co No. of	Color Signal Name [Specification]	Terminal No.	nal Color of Wire	Signal Name [Specification]	H.S.		5 4 3 5 9 1		3 8	46 48 47 45 13 3 4	
-	Y BAT	-	_	CAN-H			11 0 D		16 12	12 19 15 14 51 23 50 18 52 2	
+		2	٠.	CAN-L		_	0 0 0 1 1				
,,		7 ع	- -	TX(AMP>SW&DISP)				ļ	L		
4 r.	B GROUND as a control of the control	- 5	-	KX(SW>AMP)	Torminal	yolo		lermina No	of Wire	Signal Name [Specification]	
╁		=	J 62	VACTR	No.	of Wire	Signal Name [Specification]	-	æ	NSI	
6		15	0	SUN SENS	-	œ	1	2	В	GND	
10	O METER CONTROL SW GND	16	g	INTAKE SENS	2	æ	-	3	Υ	INFLATOR DR1+	
11	L ENTER SWITCH	17	В	ACC	3	У	_	4	Υ	INFLATOR DR1-&DR2-	
4	┪	19	4	GND	4	_	1	S	≻	INFLATOR AS1+	
+	V ILLUMINATION CONTROL SWTCH (+)[With automatic drive positioner]	20	+	IGN	2	>	1	9	≻	INFLATOR AS1-	
+	77	26	+	RR DEF F/B	9	g	1	=	gg :	ECZS+	
+	ILLUMINATIO	27	HH 1	RR DEF ON	7	SHELD		15	>	ECZS-	
$^{+}$	BR AIR BAG	32	+	FAN PWM	80	> :	ı	12	BR	A/B W/L	
+	1	5. S	+	AMB POWER	Б <u>;</u>	<b>&gt;</b> :	1	9 9	SHELD	GND	
+	P AMBIENT SENSOR POWER	32	+	AMB SENS	=	>	1	e ;	> .	A/B CUTOFF TELLTALE	
50	Y AMBIENT SENSOR GROUND	36	<u>၅</u> ႏ	INCAR SENS				21	۵ ر	CAN HI	
7	CAN-F	9 8	+	GND(BOWER)	Connector No		Mea	¥ ¥	۲ >	INEL ATOR DR2+	
+		8 9	╁	BAT		Т		46	- a	CANIO	
$\vdash$	FUEL LEVE				Connector Name		AWD CONTROL UNIT	47	. >	INFLATOR AS2+	
H	BR CHG				Connector Type	П	TH16FW-NH	48	У	INFLATOR AS2-	
-	G PARKING BRAKE SWITCH	Conne	Connector No.	M57	Q.	_		49	>	ODS INPUT	
27	V BRAKE FLUID LEVEL SWITCH  D WASHED LEVEL SWITCH	Conne	Connector Name	CVT SHIFT SELECTOR	季						
ł		Conne	Connector Type	TK10EW	H.S.	L	[ 7 \ 1				
╁	_		36. 100	W 100 W		<u> </u>	1 2 3 4 5 6 7 8				
H	LG OD OFF/SPORTS	E	_				9 10 11 12 13 14 15 16				
Н	П	Ę	ž			4					
+	П		5	1 3 7 9		ľ					
36	R SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)			2 4 5 6 8	Terminal No.	Color of Wire	Signal Name [Specification]				
					-	ΓG	AWD SOL+				
					2	_	AWD SOL-				
		Terminal		Signal Name [Specification]	7	≃ .	IGN				
		NO.	+		20 0	ا ر	SOI BATT				
		- -	3 a		B Ç	5 a	SOLBAIL				
		٢	3		2		and				

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# < ECU DIAGNOSIS INFORMATION >

M	METER						
Conne	Connector No.	M77	44	Ĺ	- A	- 0	6 V -[With automatic drive positioner]
Conne	Connector Name	WIRE TO WIRE	42		1		6 Y –[Without automatic drive positioner
Connector	ctor Type	TH80FW-0319	40	1	(6 8 ×	1 1	13 - 28
			48	ļ	66	2 >	7 7 7
E	•		46	Ľ	- 5		
7	۷ E		20	SHI	- TD		Connector No. M122
	5		21		W – Connector No.	or No. M79	Connector Name BCM (BODY CONTROL MODULE)
		00 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	25	7	B Connector Name	or Name AIR BAG DIAGNOSIS SENSOR UNIT	Т
			3 2	+	DA Connector Time	or Tune   TK19EV=1V-EV	1
		þ	5 5	+		1	
Terminal	nal Color		26	╀			
Š	_	Signal Name [Specification]	22	Ľ			7
_	t	- Q	28	┝	SH	20 20 00 00	91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73
2	В	1	29	SHE	SHIELD -	77 07 07	109 108 107 106 105 104 103 102 101 100 99 98 97
က	*	-	09	Ľ	- 8	8 39 7 36 35 40	
4	~	-	19	Ľ			
2	Υ	1	62	_	- M		Terminal Color
9	м	1	63	Ľ	O Terminal	⊢	of Wire
_	ŋ	1	49	Ĺ	- No.	of Wire ognal Name Copecinication	72 B ROOM ANT2-
∞	SHIELD		99	Ľ		Y ELR RH+	73 W ROOM ANT2+
6	*	1	67	Ĺ	80	Y ELR RH-	Y PASS
10	L	1	89			L BUCKLE SW RH	P
=	ŀ		69	Ę.		W INF CURTAIN BH+	>
£	ο α		8 8	-		O INF CUBTAIN BH-	ł
=   =	+		7	1			- 8
2 ;	+		F	1	100	SIDE INF KRIT	MINIODI ANI ENINA CONTROL
4	+		7 6	1		NO SIDE INF KH	o 8
2 ;	7, 0		2	1			82 BK IGN KELAY (F/B) CON I
16	+	1	4	1			۱ م
17	+	-	72	+	- 40	SHIELD GND	
18	۱	-	76	1			GR CON
19	1		11	<u></u>	1		BR
20	_	-	78	ĪS	SHIELD – Connector No.	or No. M83	a.
21		-	79	_	B - Connector Name	or Name METER CONTROL SWITCH	٦ ا
22			80	>	1		92 R KEY SLOT ILL
23		1	81	۲	LG – Connector Type	or Type TH12FW-NH	Ъ
24	٠,		82	_	_		95 L ACC RELAY CONT
25	Υ	-	83	٨	W -[With automatic drive positioner]		96 Y CVT SHIFT SELECTOR POWER SUP
27		-	83	9	GR -[With driver side power seat]	[	0
78	α	1	84	Ľ		1	
30	L		82	ľ	V -[With front heated seat and passenger side power seat]	1 2 3 4 5 6	>
E	ŀ		25	ď	t	÷	P PASSENGER
8	ľ		8	<u>" </u>	t	9 10 11	. 3
1	ł		3 8	1			
5 6	t		٥	1			-
£	5		8	1	-		L KEYLESS E
98	+	1	68 80	-	No.	J.	+
37	+	-	90	_		1	0
40	0	_	91	_	G – 2	- 0	108 P COMBI SW INPUT 4
41			95	В	BR - 3	M	SB
42	SB		93	Ĺ			110 G HAZARD SW
43	L		94				97
4	-		46	1			LG
J٤							
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:NV							
IW							
/M							
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Connector No.	or No.	M129	82	М	SOUND SIGNAL RH (-)[With DVD player]	37	SB	REVERSE
Connector Name	r Name	AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT	82	м	iPod SOUND SIGNAL RH (-)[Without DVD player]	38	>	VEHICLE SPEED (8-PULSE)
		NAVIGATION STSTEM)	83	œ	SOUND SIGNAL RH (+)[With DVD player]	40	Д	CONNECTION RECOGNITION
Connector Type	or Type	TH24FW-NH	83	œ	iPod SOUND SIGNAL RH (+)[Without DVD player]	42	В	CONTROL SIGNAL
٥			82	8	GND	43	В	CONTROL SIGNAL
B			98	7	CAN-H	48	9	AV COMM (H)
¥.			87	۵	CAN-L	49	7	AV COMM (L)
Ŝ	L		88	œ	AV COMM (H)	20	ď	AV COMM (H)
	47 46	46 45 44 43 42 41 40 39 38 37 36	68	٦	AV COMM (L)	51	٦	AV COMM (L)
	59 58 57	3 57 56 55 54 53 52 51 50 49 48	06	ŋ	AV COMM (H)	52	7	CAN-H
			91	٦	AV COMM (L)	53	а	CAN-L
			92	œ	AUX SOUND SIGNAL RH (+)			
Terminal	⊢	Signal Name (Sanation)	96	В	AUX SOUND SIGNAL LH (+)			
No.	of Wire		6	Μ	AUX SOUND SIGNAL GND	Connector No.		M146
36	٦	COMPOSITE IMAGE SIGNAL	86	5	SOUND SIGNAL LH (-)[With DVD player]	N separate	П	(MSTSVS MOLTA OBYAN LITTING THAT LOGITING VA
37	Ь	COMPOSITE IMAGE GND	86	٦	iPod SOUND SIGNAL LH (-)[Without DVD player]	000000		AV CONTROL ON THE WASTERNING STREET
38	Υ	RGB (B:BLUE) SIGNAL	66	8	SOUND SIGNAL LH (+)[With DVD player]	Connector Type		TH12FW-NH
39	٦	RGB (G:GREEN) SIGNAL	66	BR	iPod SOUND SIGNAL LH (+)[Without DVD player]	4		
40	G	RGB (R:RED) SIGNAL	100	SHIELD		F		
41	В	RGB SYNC	100	SHIELD	SHIELD[Without DVD player]	) He		7
42	SHIELD		101	^	SW GND	5		00 00 10
43	W	RGB AREA (YS) SIGNAL	103	Μ	EJECT SIGNAL			64 66 68 /U
44	g	COMM (DISP->CONT)	104	5	IGNITION			61 63 65 67 69 71
45	5	욮	105	SB	REVERSE			11
46	ΓC	SIGNAL GND	106	5	PARKING BRAKE			
47	0	SIGNAL VCC	107	>	VEHICLE SPEED (8-PULSE)	Terminal	Color	[
49	SHIELD					No.	of Wire	oignar Name Lopecinication
20	SHIELD	SHIELD				61	G	RGB (R:RED) SIGNAL
22	SHIELD		Connector No.	r No.	M145	62	ч	RGB (G:GREEN) SIGNAL
99	ч	COMM (CONT->DISP)	Conclusion Name	Nomo	(MBISAS NOIFADIVAN HIM) INIT TORINGO AV	63	W	RGB (B:BLUE) SIGNAL
22	œ	ďΛ				64	SHIELD	SHIELD
28	BR	INVERTER GND	Connector Type	r Type	TH40FW-NH	65	В	RGB SYNC
29	Υ	INVERTER VCC	4			99	SHIELD	SHIELD
			F			67	W	RGB AREA (YS) SIGNAL
			) ii			68	В	HP
Connector No.	or No.	M131	2		7	69	œ	ΝΡ
Connector Name	or Name	AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAVORATION SYSTEM)		22 24 26 21 21 23 25 25	8 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 7 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59	70	œ (	COMM (CONT->DISP)
Connector Type	r Type	TH32FW-NH				72	SHIELD	SHIELD
þ								
厚			Terminal	Color of Wire	Signal Name [Specification]			
Ş		<u> </u>	21		GND			
	91 90 8	89 88 87 86 85 84 83 82 81 80 79 78 77 76	22	>	BATTERY			
	107 106 1	107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92	23	В	GND			
			24	>-	BATTERY			
			22	œ	ACC			
Terminal	_	Signal Name [Specification]	26	В				
No.	of Wire	Ogna i valle Edpermoatorij	27	SHIELD				
79	٦	TEL VOICE SIGNAL (-)	28	*	MICROPHONE SIGNAL			
80	œ	TEL VC	32	g	IGNITION			
8	SHIELD	SHIELD	36	g	PARKING BRAKE			

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### Fail-Safe

INFOID:0000000005681436

### 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 temperatur	e gauge					
Illumination control		When suspending communication, changes to nighttime mode.				
	Door open warning	The display turns off by suspending communication.				
	Parking brake release warning	The display turns on by suspending communication.				
	Instantaneous fuel warning	When reception time of an abnormal signal is 2 seconds or				
Information display	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					
	VDC OFF indicator lamp	The lamp turns on by suspending communication				
Buzzer	SLIP indicator lamp					
	Brake warning lamp	The lamp turns on by suspending communication.				
	AWD warning lamp	The lamp turns ON after flashing for 1 minute.				
	Malfunction indicator lamp					
	Low tire pressure warning lamp					
Warning lamp/indicator lamp	High beam indicator lamp					
iap	Turn signal indicator lamp					
	Light indicator lamp					
	Oil pressure warning lamp	The leave towns off his constant in a constant in				
	CRUISE indicator lamp	The lamp turns off by suspending communication.				
	O/D OFF indicator lamp					
	AWD LOCK indicator lamp					
	Key warning lamp					

DTC Index (INFOID:0000000005681437)

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-38, "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	When detecting error during the initial diagnosis of the CAN controller of combination meter.	MWI-39, "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-40, "Diagnosis Procedure"
ENGINE SPEED [B2267]	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-41, "Diagnosis Procedure"
WATER TEMP [B2268]	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-42, "Diagnosis Procedure"

Revision: 2009 September INL-117 2010 Murano

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### **INTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

# INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

### **CAUTION:**

Perform the self-diagnosis with CONSULT-III before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Possible cause	Inspection item		
All 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 DLK-97.		
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" INFOID:0000000005516795

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:**

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

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

#### WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:000000005716388

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.

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

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

#### WARNING:

 When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s)

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### **PRECAUTIONS**

### < PRECAUTION >

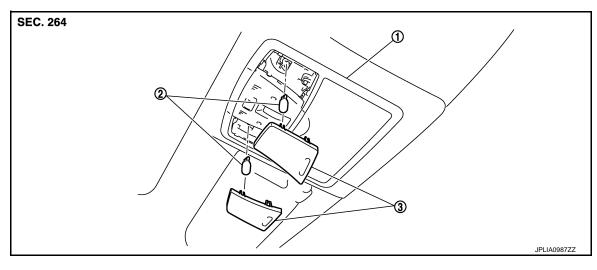
with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.

• 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.

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### **MOOD LAMP**

### < REMOVAL AND INSTALLATION >

MOOD LAMP

MAP LAMP

MAP LAMP: Replacement

INFOID:0000000005516800

MAP LAMP

Mood lamp (map lamp) is integrated into the map lamp assembly. Refer to INL-121. "Exploded View".

FRONT DOOR GRIP

FRONT DOOR GRIP: Replacement

INFOID:0000000005516801

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:0000000005516802

**ROOF CENTER** 

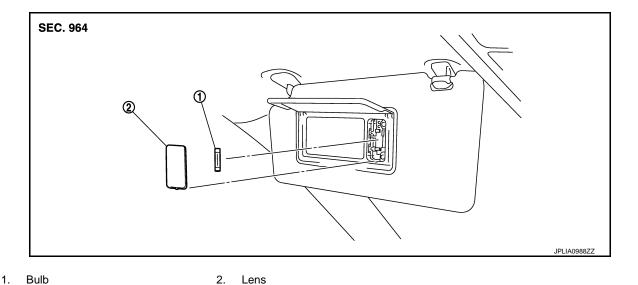
Mood lamp (roof center) is integrated into the headlining.

• 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.

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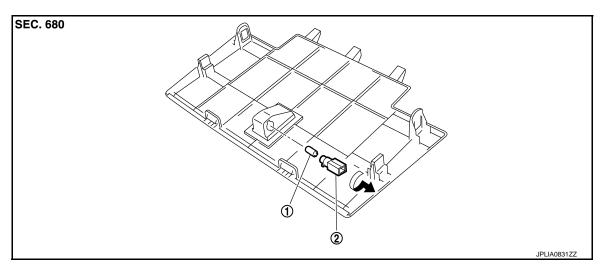
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### **CONSOLE POCKET LAMP**

Exploded View



. Bulb 2. Bulb socket

Replacement INFOID:0000000005516806

#### **CAUTION:**

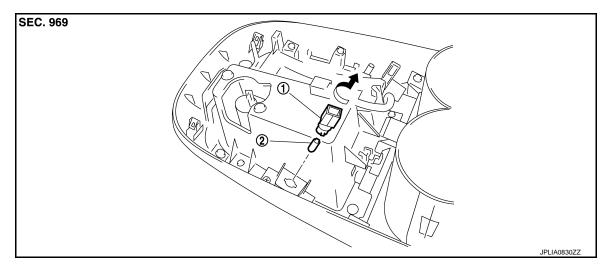
- Disconnect the battery negative terminal or remove the fuse.
- · Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- · Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because 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



. 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.

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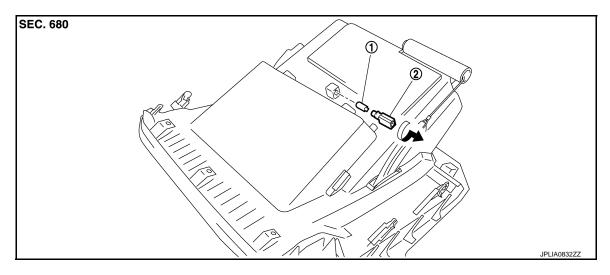
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### **GLOVE BOX LAMP**

Exploded View



. Bulb 2. Bulb socket

Replacement INFOID:00000000005516810

#### **CAUTION:**

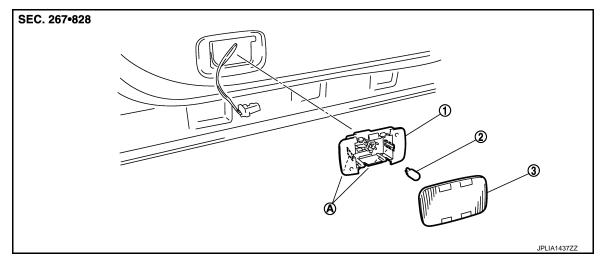
- Disconnect the battery negative terminal or remove the fuse.
- · Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- · Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because 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
 Metal clip

2. Bulb

3. Lens

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

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

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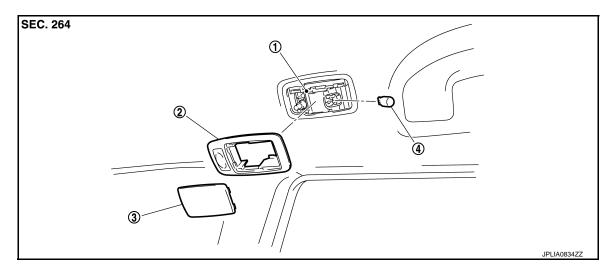
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### PERSONAL LAMP

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:0000000005516815

#### **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).
- 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.

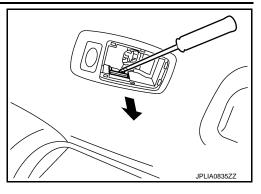
#### NOTE:

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:0000000005516816

#### **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.

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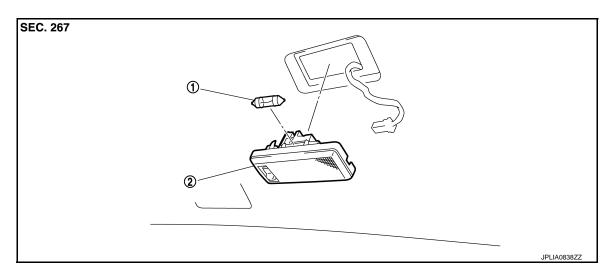
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### LUGGAGE ROOM LAMP

Exploded View



1. Bulb

2. Luggage room lamp assembly

### Removal and Installation

INFOID:0000000005516818

#### **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 INFOID:0000000005516819

#### **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	llumination	LED	_
Map lamp		Wedge	8
	Map lamp	LED	_
Mood lamp	Front door grip	LED	_
	Roof center	LED	_
Vanity mirror lamp	1	_	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

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