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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

**OVERALL SEQUENCE** 

D Inspection start Е 1. Get information for symptom Get the detailed information about symptom from the customer 2. Check DTC Print out DTC and freeze frame data (or, write it down). Check related service bulletines. Symptom is described. Symptom is not described. Symptom is described. DTC is detected. DTC is detected. DTC is not detected. 3. Confirm the symptom 4. Confirm the symptom Try to confirm the symptom described Try to confirm the symptom described by the customer. by the customer. Also study the normal operation and failsafe related to the symptom. 5. Perform DTC CONFIRMATION PROCEDURE 6. Detect malfunctioning system by K SYMPTOM DIAGNOSIS 7. Detect malfunctioning part by Diagnosis Procedure Symptom is INL Symptom is not described. 8. Repair or replace the malfunctioning part Check input/output signal or voltage DTC is 9. Final check Ν Symptom remains. detected. Check that the symptom is not detected. Perform DTC Confirmation Procedure again, and then check that the malfunction is repaired. DTC is not detected. Symptom does not remain. Р INSPECTION END

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#### DIAGNOSIS AND REPAIR WORK FLOW

#### < BASIC INSPECTION >

# 1.GET INFORMATION FOR SYMPTOM

- 1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
- 2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

# 2. CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is detected.
- Record DTC and freeze frame data (Print them out using CONSULT.)
- Erase DTC
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

#### Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

#### 3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

#### 4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

# 5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to DTC INSPECTION PRIORITY CHART, and determine trouble diagnosis order.

#### NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIR-MATION PROCEDURE.

#### Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-40, "Intermittent Incident".

# 6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

#### Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT.

# 7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

#### DIAGNOSIS AND REPAIR WORK FLOW

#### < BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

#### Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-40, "Intermittent Incident".

# 8.repair or replace the malfunctioning part

- Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replace-
- Check DTC. If DTC is detected, erase it.

>> GO TO 9.

# 9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

#### Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

>> Before returning the vehicle to the customer, always erase DTC.

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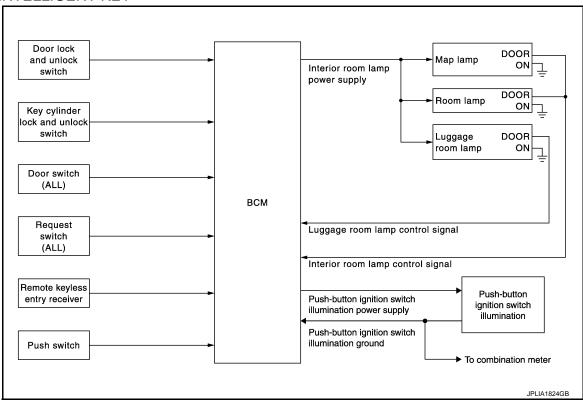
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# SYSTEM DESCRIPTION

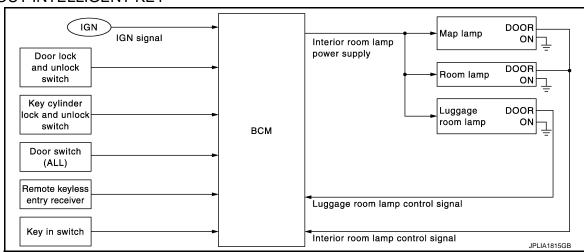
# INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

#### WITH INTELLIGENT KEY



#### WITHOUT INTELLIGENT KEY



# System Description

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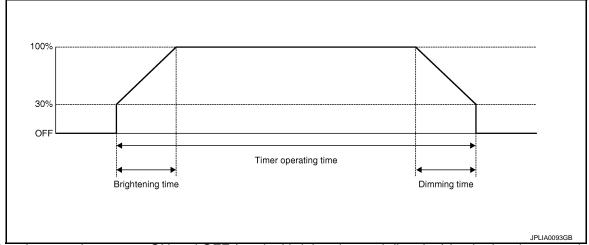
#### **OUTLINE**

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

#### < SYSTEM DESCRIPTION >

#### INTERIOR ROOM LAMP TIMER CONTROL

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 lamp timer.
- Ignition switch status
- Door switch signal (ALL)
- Door lock/unlock signal (Remote keyless entry receiver, each request switch\*1, door lock and unlock switch, key cylinder lock and unlock switch)
- Key switch signal\*2
- Push switch signal\*1

#### NOTE:

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

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens (back door include).
- 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.
- Key switch is turned ON → OFF\*2.
- Any door unlock signal is detected when all doors close with ignition switch OFF.
- Push switch is turned ON → OFF<sup>\*1</sup>.

#### 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 ON with all doors close.
- All door lock operation is detected with all doors close.
- \*1:With Intelligent Key
- \*2:Without Intelligent Key

#### LUGGAGE ROOM LAMP CONTROL

BCM controls the luggage room lamp (ground-side) to turn ON with the luggage room lamp switch ON.

#### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL (WITH INTELLIGENT KEY)

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

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#### < SYSTEM DESCRIPTION >

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

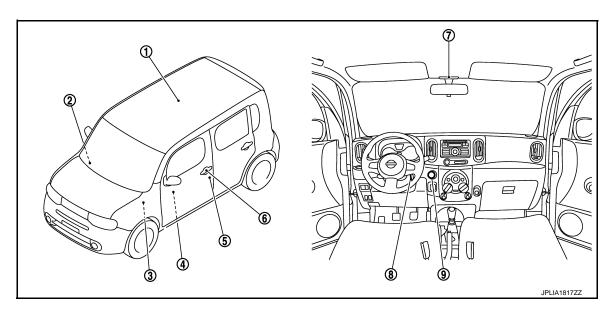
Push-button Ignition Switch Illumination OFF Operation

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**

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- Room lamp
- 4. Door lock and unlock switch
- 7. Map lamp

- Remote keyless entry receiver Refer to <u>DLK-15</u>. "Component Parts Location".
- 5. Door switch
- 8. Key switch (Without Intelligent Key)
- 3. BCM
  Refer to BCS-10, "Component Parts
  Location".
- 6. Request switch
- 9. Push switch (With Intelligent Key)

# Component Description

INFOID:0000000009950915

Part	Description
BCM	Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF.
Remote keyless entry receiver	Receives the lock/unlock signal from Keyfob.
<ul> <li>Door lock and unlock switch</li> <li>Key cylinder lock and unlock switch</li> <li>Request switch*1</li> </ul>	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM.
Key in switch*2     Push switch*1	Inputs the key switch signal to BCM.

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

<sup>\*2:</sup>Without Intelligent Key

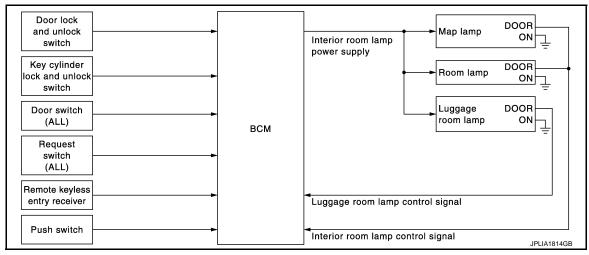
#### INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

#### < SYSTEM DESCRIPTION >

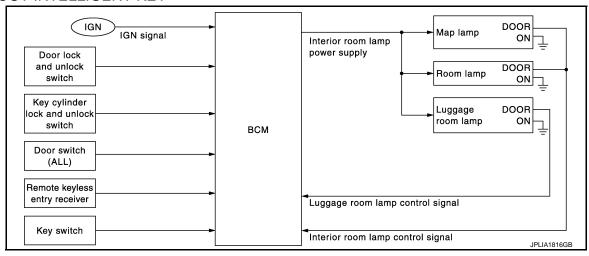
#### INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

# System Diagram

#### WITH INTELLIGENT KEY



#### WITHOUT INTELLIGENT KEY



# 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.

#### Applicable lamps

- Map lamp
- Room lamp
- Luggage room 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\*1, door lock and unlock switch, key cylinder lock and unlock switch)

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- Key switch signal\*2

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#### INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

#### < SYSTEM DESCRIPTION >

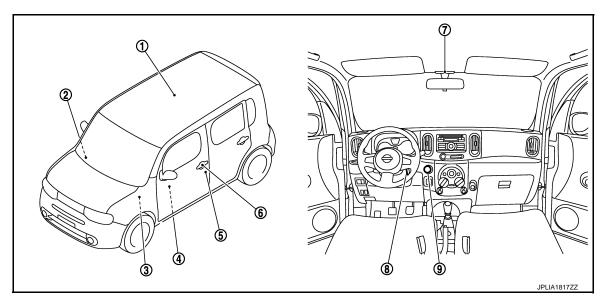
- Push switch signal\*1
- BCM provides the interior room lamp power supply continuously when the ignition switch position is ON.
- \*1:With Intelligent Key
- \*2:Without Intelligent Key

#### NOTE:

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

# **Component Parts Location**

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- Room lamp
- 4. Door lock and unlock switch
- 7. Map lamp

- Remote keyless entry receiver Refer to <u>DLK-15</u>, "Component Parts Location".
- 5. Door switch
- 8. Key switch (Without Intelligent Key)
- 3. BCM
  Refer to BCS-10, "Component Parts
  Location".
- 6. Request switch
- 9. Push switch (With Intelligent Key)

# Component Description

INFOID:0000000009950919

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.	
<ul> <li>Door lock and unlock switch</li> <li>Key cylinder lock and unlock switch</li> <li>Request switch*1</li> </ul>	Inputs the lock/unlock signal to BCM.	
Door switch	Inputs the door switch signal to BCM.	
<ul> <li>Push switch*1</li> <li>Key switch*2</li> </ul>	Inputs the key switch signal to BCM.	

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

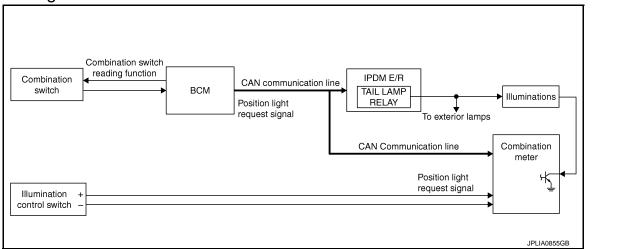
<sup>\*2:</sup>Without Intelligent Key

#### **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 and IPDM E/R.

Control by BCM

- Combination switch reading function
- · Headlamp control function

Control by IPDM E/R

Relay control function

#### **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 illuminates the meter illumination according to position light request signal.

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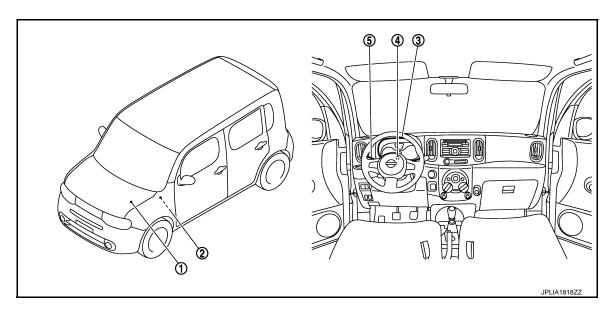
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# **Component Parts Location**

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- IPDM E/R
   Refer to PCS-5, "Component Parts
   Location".
- 4. Illumination control switch
- BCM
   Refer to BCS-10, "Component Parts
   Location".
- 5. Combination switch

# **Component Description**

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3. Combination meter

Part	Description	
ВСМ	<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 signal from BCM (with CAN conmunication).	
Combination meter	Illuminates the meter illumination according to the request signal from BCM (with CAN communication).	
Combination switch (Lighting & turn signal switch)	Refer to BCS-11, "System Diagram".	

< SYSTEM DESCRIPTION >

# DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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#### APPLICATION ITEM

CONSULT 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.
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.

x: Applicable item

Cyatam	Sub quatem adjection item	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	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Automatic air conditioner	AIR CONDITONER		×	
<ul><li>Intelligent Key system</li><li>Engine start system</li></ul>	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	ВСМ	×		
NVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

#### FREEZE FRAME DATA (FFD)

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

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#### < SYSTEM DESCRIPTION >

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" <sup>*</sup> )		
	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)		
R	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	Power position status of the moment a particular DTC is detected	While turning power supply position from "OFF" to "LOCK"*		
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"		
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING		
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode		
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode		
	LOCK		Power supply position is "LOCK"*		
	OFF		Power supply position is "OFF" (Ignition switch OFF)		
	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>			

#### NOTE:

- \*: Power position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (CVT models), and any of the following conditions are met.
- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

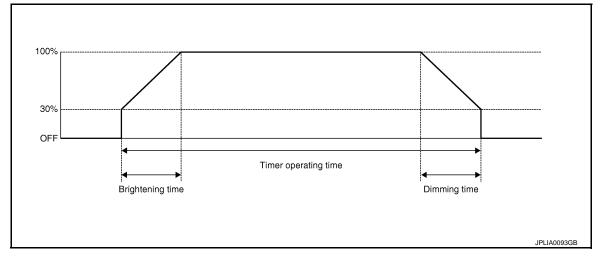
The power position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK". INT LAMP

< SYSTEM DESCRIPTION >

INT LAMP: CONSULT Function (BCM - INT LAMP)

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#### **WORK SUPPORT**



Service item	Setting item	Setting	
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.	
SET I/L D-UNLCK INTCON	On*	With the i	nterior room lamp timer function
SET I/L D-UNLCK INTCOM	Off	Without th	ne interior room lamp timer function
	MODE 1	0.5 sec.	
	MODE 2*	1 sec.	
ROOM LAMP ON TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual brightening time.
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 1	0.5 sec.	
	MODE 2*	1 sec.	
ROOM LAMP OFF TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual dimming time.
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 1*	Interior room lamp timer activates with synchronizing all doors.	
R LAMP TIMER LOGIC SET	MODE 2	Interior room lamp timer activates with synchronizing the driver do only.	

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

#### DATA MONITOR

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: This item is displayed, but cannot be monitored

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#### < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW- BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be monitored
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

#### **ACTIVE TEST**

Test item	Operation	Description	
INT LAMP	On	Outputs the interior room lamp control signal.	
INT LAWII	Off	Stops the interior room lamp control signal.	

# **BATTERY SAVER**

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

INFOID:0000000009950926

#### **WORK SUPPORT**

Service item	Setting item	Setting			
	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating		
	MODE 2	60 min.	time. NOTICE:		
ROOM LAMP TIMER SET	MODE 3	15 min.	The factor setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.		
BATTERY SAVER SET	On*	With the exterior lamp battery saver function			
DATTERT SAVER SET	Off	Without th	Without the exterior lamp battery saver function		

# < SYSTEM DESCRIPTION >

Service item	Setting item	Setting
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

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

#### **DATA MONITOR**

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: This item is displayed, but cannot be monitored
REQ SW-RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW- BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be monitored
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

#### **ACTIVE TEST**

Test item	Operation	Description
BATTERY SAVER	Off	Cuts the interior room lamp power supply.
BATTERT SAVER	On	Outputs the interior room lamp power supply.

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< SYSTEM DESCRIPTION >

# DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010262816

#### APPLICATION ITEM

CONSULT 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.
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.

x: Applicable item

System	Sub system selection item	Diagnosis mode			
System	oub system selection item	Work Support	Data Monitor	Active Test	
Door lock	DOOR LOCK	×	×	×	
Rear window defogger	REAR DEFOGGER		×	×	
Warning chime	BUZZER		×	×	
Interior room lamp control	INT LAMP	×	×	×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	×	
Exterior lamp	HEAD LAMP	×	×	×	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER		×	×	
Manual air conditioner	AIR CONDITONER		×	×	
Combination switch	COMB SW		×		
Body control system	BCM	×			
NVIS - NATS	IMMU	×	×	×	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Back door	TRUNK		×		
Vehicle security system	THEFT ALM	×	×	×	
RAP system	RETAINED PWR		×	×	
Signal buffer system	SIGNAL BUFFER		×	×	
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×	
Panic alarm system	PANIC ALARM			×	

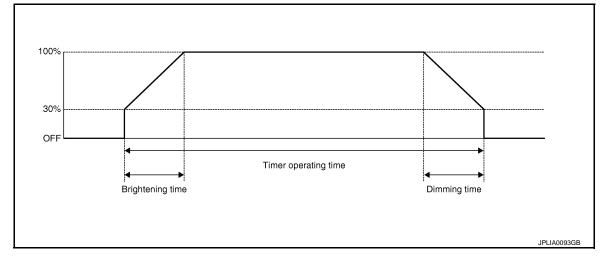
**INT LAMP** 

< SYSTEM DESCRIPTION >

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

INFOID:0000000009950928

#### **WORK SUPPORT**



Service item	Setting item	Setting		
	MODE 1	0 sec.		
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Sata the interior room lamp ONI time (Timer energting time)	
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)	
	MODE 4	30 sec.		
SET I/L D-UNLCK INTCON	On*	With the i	nterior room lamp timer function	
SET I/L D-ONECK INTCON	Off	Without th	ne interior room lamp timer function	
	MODE 1	0.5 sec.		
	MODE 2*	1 sec.		
	MODE 3	2 sec.		
ROOM LAMP ON TIME SET	MODE 4	3 sec.	Sets the interior room lamp gradual brightening time.	
	MODE 5	4 sec.		
	MODE 6	5 sec.		
	MODE 7	0 sec.		
	MODE 1	0.5 sec.		
	MODE 2*	1 sec.		
	MODE 3	2 sec.		
ROOM LAMP OFF TIME SET	MODE 4	3 sec.	Sets the interior room lamp gradual dimming time.	
	MODE 5	4 sec.		
	MODE 6	5 sec.		
	MODE 7	0 sec.		
	MODE 1*	Interior room lamp timer activates with synchronizing all doors.		
R LAMP TIMER LOGIC SET	MODE 2	Interior room lamp timer activates with synchronizing the driver doo only.		

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

#### DATA MONITOR

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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#### < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
IGN ON SW [On/Off]	Indicated [On/Off] condition of ignition switch in ON position
ACC ON SW [On/Off]	Indicated [On/Off] condition of ignition switch in ACC position
KEY ON SW [On/Off]	Indicated [On/Off] condition of key switch
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
BACK DOOR SW [On/Off]	Indicated [On/Off] condition of back door switch
LOCK STATUS [On/Off]	Indicated [On/Off] condition of driver side door
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEYLESS LOCK [On/Off]	Indicates [On/Off] condition of lock signal from keyfob
KEYLESS UNLOCK [On/Off]	Indicates [On/Off] condition of unlock signal from keyfob
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be tested

#### **ACTIVE TEST**

Test item	Operation Description	
INT LAMP	On	Outputs the interior room lamp control signal.
IINI LAWIF	Off	Stops the interior room lamp control signal.

# **BATTERY SAVER**

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000009950929

#### **WORK SUPPORT**

Service item	Setting item	Setting			
	MODE 1	30 min.	Sets the interior room lamp battery saver timer operatin time.  NOTE:		
	MODE 2	60 min.			
ROOM LAMP TIMER SET	MODE 3	15 min.	The factor setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.		

#### < SYSTEM DESCRIPTION >

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
IGN ON SW [On/Off]	Indicated [On/Off] condition of ignition switch in ON position
ACC ON SW [On/Off]	Indicated [On/Off] condition of ignition switch in ACC position
KEY ON SW [On/Off]	Indicated [On/Off] condition of key switch
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
BACK DOOR SW [On/Off]	Indicated [On/Off] condition of back door switch
LOCK STATUS [On/Off]	Indicated [On/Off] condition of driver side door
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEYLESS LOCK [On/Off]	Indicates [On/Off] condition of lock signal from keyfob
KEYLESS UNLOCK [On/Off]	Indicates [On/Off] condition of unlock signal from keyfob
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be tested

## **ACTIVE TEST**

Test item	Operation	Description		
BATTERY SAVER	Off	Cuts the interior room lamp power supply.		
DATTERT SAVER	On	Outputs the interior room lamp power supply.		

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#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

# 1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.	
Rattory power cumply	G	
Battery power supply	8	

#### 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	CM		(Approx.)	
Connector	Terminal	Ground		
M70	70	Glound	Battery voltage	
IVI7 O	57		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	
M70	M70 67		Existed	

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

# 1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

Signal name	Fuses and fusible link No.
Dotton, november	8
Battery power supply	G
ACC power supply	20
Ignition power supply	2

#### 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.

Terminals			Ignition switch position		
(+)			ignition switch position		
BCM		(–)	OFF	ACC	ON
Connector	Terminal		OFF	ACC	ON
M67	70		Battery	Battery	Battery
IVIO7	57		voltage	voltage	voltage
M65	11	Ground	Approx. 0 V	Battery voltage	Battery voltage
COIVI	38		Approx. 0 V	Approx. 0 V	Battery 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	
M67	67		Existed	

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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#### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

#### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

**Description** 

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

## Component Function Check

INFOID:0000000009950933

# 1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

#### **PCONSULT ACTIVE TEST**

- 1. Turn ignition switch ON.
- 2. Turn each interior room lamp ON.
- Map lamp
- Room lamp
- Luggage room lamp
- 3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 4. With operating the test items, check that each interior room lamp is turned ON/OFF.

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

#### Is the interior room lamp turned ON/OFF?

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

NO >> Refer to INL-24, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000009950934

# 1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

## **©CONSULT ACTIVE TEST**

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

	Terminals	Test item	Voltage (Approx.)		
(-	(+)			iesi ileiii	
В	BCM			BATTERY	
Connector	Terminal		SAVER		
M70 <sup>*1</sup>	Ground Ground		Off	0 V	
M67 <sup>*2</sup>	56		On	Battery volt- age	

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

#### Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace BCM. Refer to BCS-88, "Exploded View".

# 2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect the following connectors.
- Map lamp
- Room lamp
- Luggage room lamp
- Check continuity between BCM harness connector and each interior room lamp harness connector.

<sup>\*2:</sup> Without Intelligent Key

#### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

BCM		Each interior room lamp			Continu-
Connec- tor	Terminal	Connector	Terminal	ity	
*4		Map lamp	R4	4	
M70 <sup>*1</sup> 56	Room lamp	R6	1	Existed	
		Luggage room lamp	B11	1	

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

#### 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 ground.

В	СМ		Continuity	
Connector Terminal		Ground	Continuity	
M70 <sup>*1</sup> M67 <sup>*2</sup>	56	Ground	Not existed	

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

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

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

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<sup>\*2:</sup> Without Intelligent Key

<sup>\*2:</sup> Without Intelligent Key

#### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

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

#### NOTE:

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

#### Component Function Check

INFOID:0000000009950936

#### **CAUTION:**

Before the diagnosis, check that the following items are normal.

- Interior room lamp power supply
- Map lamp bulb
- · Room lamp bulb

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

#### **PCONSULT ACTIVE TEST**

- 1. Switch the map lamp switch to DOOR.
- Turn 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 dim-

ming

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

YES >> Interior room lamp control circuit is normal.

NO >> Refer to INL-26, "Diagnosis Procedure".

#### Diagnosis Procedure

INFOID:0000000009950937

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

#### **®CONSULT ACTIVE TEST**

- 1. Turn ignition switch OFF.
- 2. Remove all the bulbs of following lamps.
- Map lamp
- Room 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
M70 <sup>*1</sup>	63	Giodila	On	Existed
M67 <sup>*2</sup>	03		Off	Not existed

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

#### Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to BCS-88, "Exploded View".

# 2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect the following connectors.

<sup>\*2:</sup> Without Intelligent Key

#### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

- Map lamp
- Room lamp
- 3. Check continuity between BCM harness connector, map lamp harness connector, and room lamp harness connector.

BCM		Map lamp/room lamp			
Connec- tor	Terminal	Connector		Terminal	Continuity
M70 <sup>*1</sup>	63	Map lamp	R4	2	Existed
M67 <sup>*2</sup>	03	Room lamp	R6	2	LAISIEU

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

#### Does continuity exist?

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

NO >> Repair the harnesses or connectors.

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

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

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M70 <sup>*1</sup> M67 <sup>*2</sup>	63	Ground	Not existed

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

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM. Refer to BCS-88, "Exploded View".

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<sup>\*2:</sup> Without Intelligent Key

<sup>\*2:</sup> Without Intelligent Key

#### **PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

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

# Component Function Check

INFOID:0000000009950939

# 1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

#### **®CONSULT ACTIVE TEST**

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

On : Push-button ignition switch illumination ON
Off : Push-button ignition switch illumination OFF

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

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

NO >> Refer to <a href="INL-28">INL-28</a>, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000009950940

# 1. CHECK ILLUMINATION CONTROL SWITCHING OPERATION

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

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

- 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
M71	92	M101	6	Existed

#### Does the continuity exist?

YES >> Replace BCM.

NO >> Repair the harness or the connector.

# ${f 3.}$ CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

#### **©CONSULT ACTIVE TEST**

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

#### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

	Terminals		Test item		
(	+)	(-)	iesi ileiii	Voltage	
В	СМ		ENGINESW	(Approx.)	
Connector	Terminal	Ground	ILLUMI		
M71	90		ON	12 V	
	90		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

- 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
M71	90	M101	5	Existed

#### Does the continuity exist?

YES >> Replace the push-button ignition switch.

NO >> Repair the harness or the connector.

# ${f 5.}$ CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

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

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M71	90		Not existed

#### Does the continuity exist?

YES >> Repair the harness or the connector.

NO >> Replace BCM. INL

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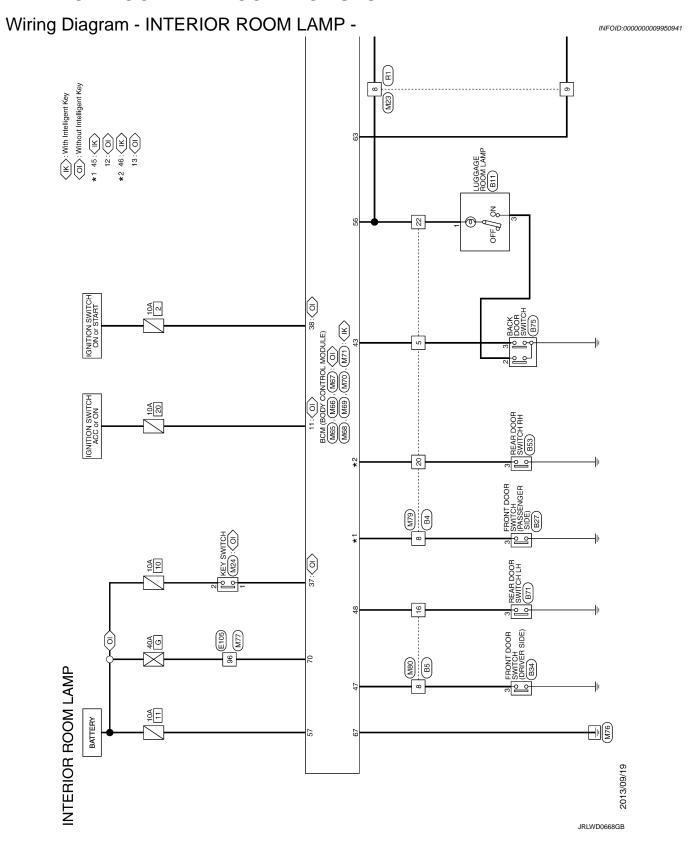
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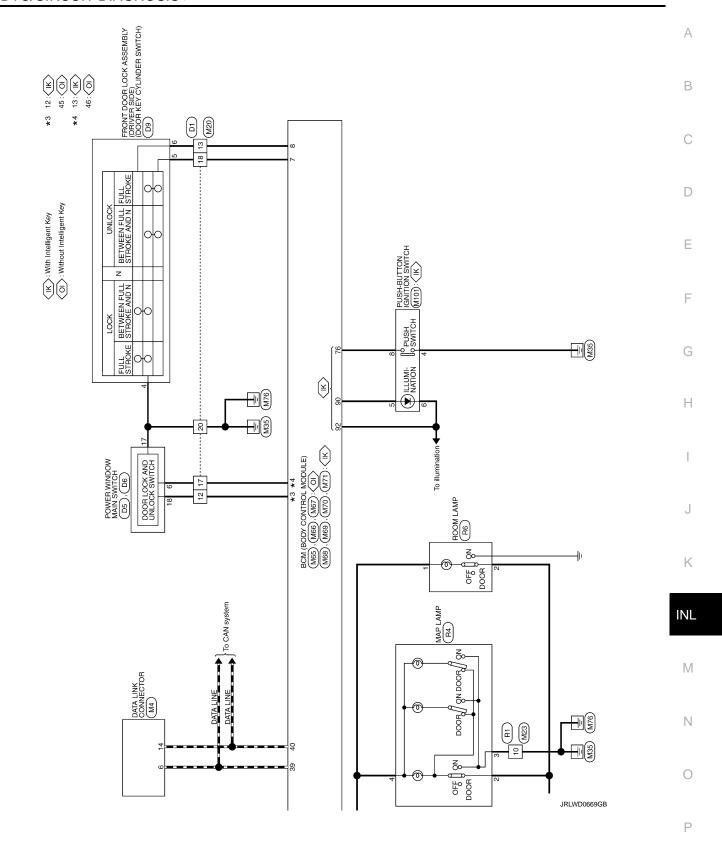
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INTERIC	INTERIOR ROOM LAMP			
Connector No.	. B4	Connector No. B5	Connector No. B27	큠
Connector Nan	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name FRONT DOOR SWITCH (PASSENGER SIDE)	No. Wire ognericant oppositions of
Connector Type	Connector Type TH24MW-NH	Connector Type TH16MW-NH	Connector Type TH04FW-NH	
修		爲	隱	Connector No. B71
H.S.	1 2 3 4 5 8 9 10 11 12	1.5	SE SE	Connector Name REAR DOOR SWITCH LH Connector Twee THAFW-NH
	13 15 16 17 18 20 22 23 24	$\Box$		香
Terminal Color Of No. Wire	or Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	¥\$
H	N.	Н	3 SB -	
> 0	> 0	2 GK		
H		- M 9	Connector No. B34	Terminal Color Of Science Rooms (Scientification)
9 M	· · ·	Н	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	Wire
_				3 W -
+		+	Connector Type TH04FW-NH	
+		4	ą	
+		+	国	Connector No. B75
12 SB		16 W -		Connector Name BACK DOOR SWITCH
+				and the state of t
15 R		O	3	Connector Type TH04FW-NH
+				₫.
+		Connector Name LUGGAGE ROOM LAMP		AHATA
+		Connector Type C.104FW	Terminal Color Of	<u>K</u>
╀		ı	No. Wire Signal Name [Specification]	
23 BR	- ·		3 LG .	
24 0	-	Ć.		
		-	Connector No.   B53	Terminal Color Of
		3	Connector Name REAR DOOR SWITCH RH	No. Wire Signal Name [Specification]
				+
		T	Connector Type TH04FW-NH	3 W
		No. Wire Signal Name [Specification]		
		γ .	E E	
		3 L		
			3	

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63 L L 67 GR	
Corrector No. E105  Corrector Name WIRE TO WIRE  Corrector Type TH60MW CS16.TMA  Terminal Color Of Signal Name (Specification)  No. Wire  2 w W 2 w W 3 SB 4 G G 5 P C C C C C C C C C C C C C C C C C C	
5	
NTERIOR ROOM LAMP	

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Connector No. 1		4	Г			I		
	M23	Connector No.	Τ	M65	Connector No.		M66	_
Connector Name	WIRE TO WIRE	Connector Name		BCM (BODY CONTROL MODULE)	Connecto	Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type NS16MW-CS	NS16MW-CS	Connecto	r Type 1	Connector Type TH40FW-NH	Connecto	Connector Type	FEA09FW-FHA6-SA	_
4		<b>1</b>			<u> </u>			1
U I		まま		K	E			
115	2 9	4		2 3 4 5 6 7 8 9 10 11 12 13	4		43 44 45 46 47 48	
	8 9 10 16		الننه	ল হৈ হৈ জি হৈ জি হৈ জি জাল হৈ জাল জাজ লাভ জাৰ বঢ়			50 54	
Terminal Color Of No. Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	_
> 9		2	BR/W	COMBI SW INPUT 5	43	۸	BACK DOOR SW	_
7 G		3	GR	COMBI SW INPUT 4	44	PT	REAR WIPER STOP POSITION	_
8 L		4	ΓV	COMBI SW INPUT 3	45	GR	CENTRAL DOOR LOCK SW	_
9 BR		5	၅	COMBI SW INPUT 2	46	BR	CENTRAL DOOR UNLOCK SW	_
10 B		9	L/R	COMBI SW INPUT 1	47	BR/Y	DRIVER DOOR SW	
16 SHIELD		7	W/R	KEY CYL UNLOCK SW	48	W/G	REAR LH DOOR SW	_
		8	W/B	KEY CYL LOCK SW	20	SB	A/C INDICATOR OUTPUT	_
		6	ď	STOP LAMP SW	54	LG	REAR WIPER OUTPUT	_
	M24	10	M/L	REAR WINDOW DEFOGGER SW				
	KEY SIMITCH	1	ΛΛ	ACC POWER SUPPLY				
		12	SB	PASSENGER DOOR SW	Connecto		M67	_
Connector Type	TK06MGY	13	GRVL	REAR RH DOOR SW	Connects		BCM (BODY CONTROL MODILLE)	
4		18	>	RECEIVER / SENSOR GND			DOM (DOD) COMMON MODOLE)	_
修		19	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY	Connecto		FEA09FB-FHA6-SA	_
Ę		20	G/Y	KEYLESS ENTRY RECEIVER COMM	4			
2	_[ []	21	P/L	NATS ANTENNA AMP.	ß			
	0 7	23	RY	SECURITY INDICATOR LAMP	ŧ			
		25	97	NATS ANTENNA AMP.	2		57 50 80 61	
		26	GR	THERMO CONTROL AMP.			3	
		27	9/A	A/C SW			69 89 69	
Ja La	Signal Name [Specification]	28	G/W	BLOWER FAN SW				
1	frompounded output militia	59	ΓW	HAZARD SW				
1 R/W	,	31	ĊΛ	FR DEFROSTER SW	Terminal	Color Of	Signal Name [Specification]	
2 LG/R	•	32	FG	COMBI SW OUTPUT 5	No	Wire	og on the company	
		33	J//L	COMBI SW OUTPUT 4	99	٦	INTERIOR ROOM LAMP POWER SUPPLY	
		34	W	COMBI SW OUTPUT 3	22	Υ	BAT (FUSE)	_
		35	R/L	COMBI SW OUTPUT 2	69	R/I	DRIVER DOOR UNLOCK OUTPUT	
		36	0/1	COMBI SW OUTPUT 1	09	W/B	TURN SIGNAL LH OUTPUT	
		37	R/W	KEY SWITCH	61	T/M	TURN SIGNAL RH OUTPUT	_
		38	0	IGNITTION POWER SUPPLY	63	BR	ROOM LAMP TIMER CONTROL	_
		39	7	CAN-H	9	۸	ALL DOOR LOCK OUTPUT	_
		40	Ы	CAN-L	99	9	PASSENGER DOOR, REAR DOOR UNLOCK OUTPUT	
					29	В	GROUND	_
					68	Г	POWER WINDOW POWER SUPPLY (IGN)	
					69	Ь	POWER WINDOW POWER SUPPLY (BAT)	_
					70	У	BAT (F/L)	_
_ , , , , , , , , , , , , , , , , , , ,		KEV SW MZ4	Signal Name [Specification]  N24  KEY SWITCH  TKG6MGY  Signal Name [Specification]	Signal Name [Specification]   Terminal   Name   Specification]   Name   Specification]   Name   Specification]   Name   Specification]   Name   Name   Specification]   Name   Name	Signal Name   Specification    Signal Name   Specification	Forminal Coder Of   Signal Name (Specification)   Forminal Coder Signal Name (Forminal Coder Signal Coder Signal Name (Forminal Coder Signal Name (Forminal Coder Signal Name (	Terminal Color Of Signal Name (Specification)   No.   Wire   Color Of Signal Name (Specification)   No.   Wire   Color Signal Name (S	Fig. 10   Fig.

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				/ \
		* * * * * * * * * * * * * * * * * * *	coffication)	В
	E TO WIRE	MACSIA-IMA	Signal Name (Specification)	С
[	r No.	HIS.	March   Marc	D
			GNO OWER INC.	Е
	POWER WINDOW POWER SUPPLY (BAT; BAT (F/L)	M71 BCM (BODY CONTROL MODULE) THIGHWANH	Signal Name [Specification]  Signal Name [Specification]  AC INDICATOR OUTPUT DRIVER DOOR REQUEST SW DRIVER DOOR ANT- PASSENGER DOOR ANT- ROOM ANT- LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- PASSENGER DOOR ANT- PASSENGER DOOR ANT- PASSENGER DOOR ANT- ROOM ANT- LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- ROOM ANT- ROOM ANT- PASSENGER DOOR ANT- BACK DOOR ANT- ROOM ANT- LUGGAGE ROOM ANT- ROO	F
1	POWE	- B B	Color of	G
	69	Cornector No. Cornector Type	Terminal	Н
	M69 BCM (BODY CONTROL MODULE)	EAMSPER-FARE-SA 50 51 44 45 46 47 48 54 55	Signal Name (Specification)  REAR RH DOOR SW PASSENGER DOOR SW BROWNERS THE HOOR SW BROWNERS THE HOOR SW REAR HIDDOR SW REAR HOOR SW REAR HOUTH THAN SIGNAL RH OUTHI THAN SIGNAL RH OUTHI THAN SIGNAL RH OUTHI ROOM LAMP TINEER CONTROL ALL DOOR LOCK OUTPUT ROOM LAMP TINEER CONTROL ALL DOOR LOCK OUTPUT ROOM LAMP TINEER CONTROL ROUND NOWER SUPLY (IGN) POWER WINDOW POWER SUPLY (IGN)	l J
	No.	H.S.	No.   Wire	К
MP	ROL MODULE)	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	Signal Name   Specification     Wive   COMBI SWI WIPUT 4     GR   COMBI SWI WIPUT 4     G   COMBI SWI WIPUT 3     G   COMBI SWI WIPUT 3     G   COMBI SWI WIPUT 1     G   COMBI SWI WIPUT 1     G   COMBI SWI WIPUT 3     G   COMBI SWI WIPUT 3     G   COMBI SWI WIPUT 3     G   COMBI SWI WIPUT 4     G   COMBI SWI WIPUT 4     G   COMBI SWI WIPUT 5     G   COMBI SWI WIPUT 5     G   COMBI SWI COLOR SWI WIPUT 5     G   COMBI SWI COLOR SWI WIPUT 5     G   COMBI SWI COLOR T 4     G   COMBI SWI COLOR T 5     G   COMBI SWI COLIFIT 4     G   COMBI SWI COLIFIT 4     G   COMBI SWI COLIFIT 5     G	INL
INTERIOR ROOM LAMP	M68 BCM (BODY CONTROL MODULE)	2 2 4 5 6 7 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Signal Name COMBI COMBI COMBI COMBI COMBI COMBI COMBI COMBI SENS STOP I CENTRAL DI COMBI SI COMBI	M
ERIOR F	-	edd vo	No.   Wive   No.   Wive   No.   Wive   No.   Wive   No.   Wive   No.	N
鵥	Connector No.	H.S.	7-6-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
				0
			IRI WD0830GR	

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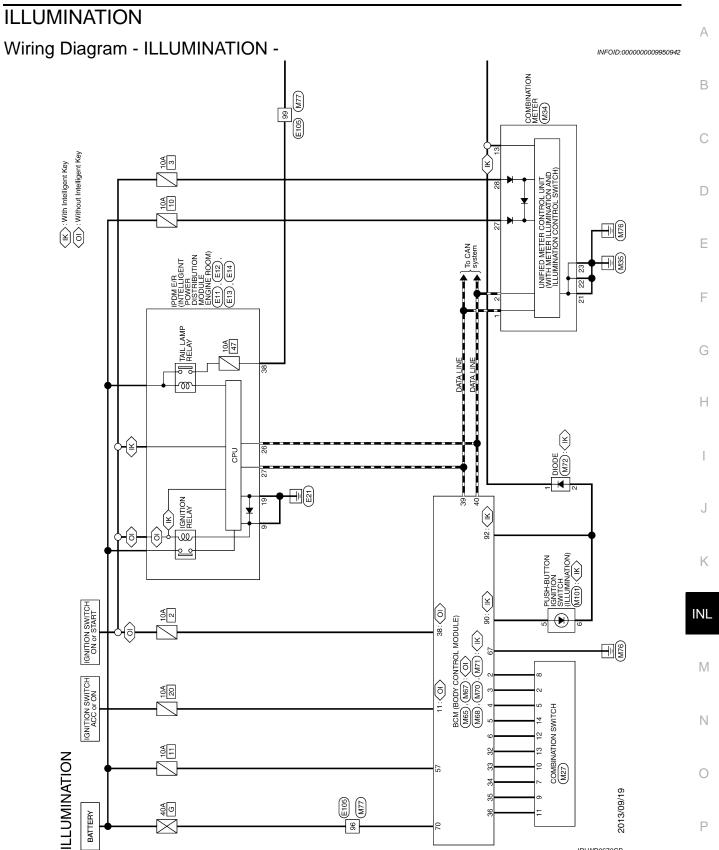
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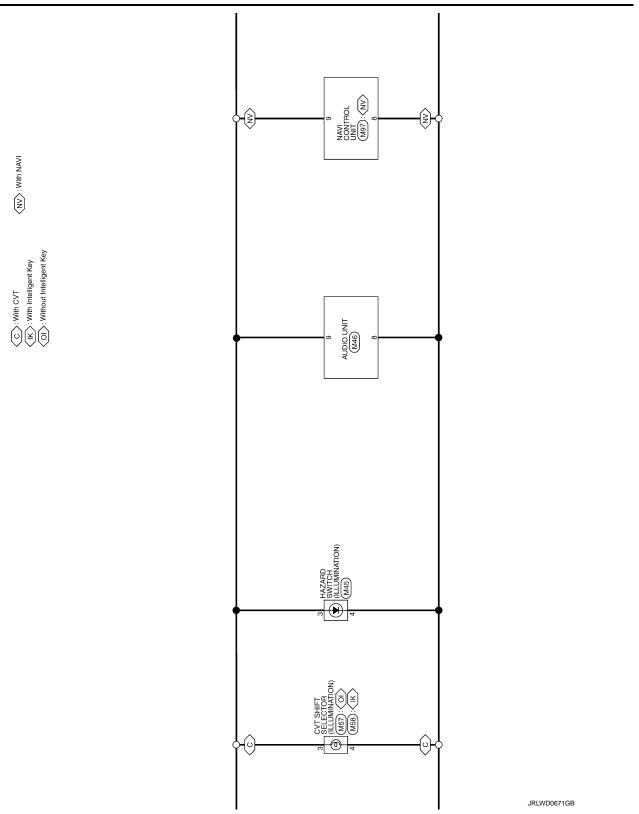
**INL-35** 2014 CUBE Revision: 2013 October

Terminal C No.	79 1.C 81 1 L 82 GR 84 8 8 84 GR 84 8 8 85 GR 84 8 8 85 V 95 V 95 V 96 V 97 L 98 BRW 99 W 100 GR 1211109 8 15 4 3 2 1 1 11	20 GR/L	A   A   A   A   A   A   A   A   A   A	Corrector Name ROOM LAMP Corrector Type COOPTW  Territrell Coop Of Name (Specification)  1
- 3				
	R/L - GR/R -	$\dashv$		

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JRLWD0670GB



A/C AUTO AMP. (M50): \(AA\) **₹ ₹** \*: This connector is not shown in "Harness Layout". JRLWD0672GB Α

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⟨AA⟩: With auto A/C
⟨MA⟩: With manual A/C

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ŀ	69 P	70 SHIELD -	71 GR -	72 LG -	73 Р	74 V -	+	+	0 92	ŀ	┝	82 W -	83 BR -	84 B -	91 W	92 Y	- × × × × × × × × × × × × × × × × × × ×	94 R	- A 96	- 91 96	97 R	F	H	100 P			Connector No. M5	Connector Name VDC OFF SWITCH	Connector Type TK06EGY	1	1			7 0 0 7	၁			Terminal Color Of	No. Wire Signal Name [Specification]	1 SB -	2 B		a/a	1			
- 1	Connector No. E105	Owner Alows Own TO WILD TO		Connector Type TH80MW-CS16-TM4					8 9 X 0 0 X 0 X 0 X 0 X 0 X 0 X 0 X 0 X 0			Terminal Color Of Simol Name [Secontinual	No. Wire oigner reme [openication]	1 V -	2 W -	3 SB -	4 G	5 P	6 L - [With NAVI]	6 R - [Without NAVI]	7 Y 7	0 8	M	10 SB -	31 V	32 R	4	34 P	╀	H	44 R	45 V	46 P -	48 L	51 B - [With M/T]	Н	53 SB -	54 0 - [With M/T]	W	97	H	0 09	ď	+	╀	67 GR - IWith CVTI	>
[	Connector No. E13	PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE		Connector Type TH12FW-NH					52 25	34 33 31 30		쿋	No. Wire ogner warre copecinication	24 G -	25 Y -	26 P -	7	28 P	30 SB -	31 W -	33 0	H	l		Connector No. E14	PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE	Т	Connector Type NS12FBR-CS			39 38    37 36	18 45 44 43	11 01 11 01			nal	No. Wire organic realing topocinication)	36 0		38 6	>	40 R	as	+	0	┢	0
		IPDM EIR (INTELLIGENT POWER DISTRIBUTION MODULE					П	10 9		<b>]</b>		Signal Name [Seconfication]	[openiication]	-						IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE							20 21 10 18	1			ogral ivame [opecification]		-	-	1												

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Cornector No. Made  Cornector Type	Note   Color Of   Signal hame   Specification   No.   Note   No.   Solub   Signal hame   Specification   No.   Solub   Signal FRONT SPEAKER LH (-)   Solub Signal, FRONT SPEAKER LH (-)   Solub Signal, FRONT SPEAKER LH (-)   Solub Signal, READ SPEAKER LH (-)   Solub Signal, READ SPEAKER LH (-)   Solub Signal, READ SPEAKER RH (-)   Solub Signal, READ SP	
RYY RWW RWW RWW RWW RWW RWW RWW RWW RWW	31   R   Accurate Cooking National Corrector Name   ALTERNATOR SIGNAL	
Cornector No. M33  Cornector Name Contestor Tonswitch (sprout CABLE)  Connector Type TK08FGY-1V  H.S.  24 25 26  21 32 33 34	Terminal Codor Of   Signal Name [Specification]	
ILLUMINATION   Corrector No.   M27   Corrector Name   COMBINATION SWITCH	Ferminal Color Of   Signal Name   Specification   Name   Specification   Name   Specification   1 O/B   WASHER (RR)   2 GROWN   1 OUTPUT   2 UR   1 OUTPUT   1 U.O   INPUT   2 UR   INPU	

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	Connector No. Mb/	Connector Name BCM (BODY CONTROL MODULE)	Connector Type FEA09FB-FHA6-SA		IF.		29 80 64 63	65 66 67 68 69 70			ag D	No. Wire	30 L INTERIOR ROUM LAWIP POWER SUPPLY	0.7	a W	D(M)	BR	>	66 G PASSENGER DOOR, REAR DOOR UNLOCK OUTPUT		7	69 P POWER WINDOW POWER SUPPLY (BAT)	70 Y BAT (F/L)		١	Connector No. M68	Connector Name BCM (BODY CONTROL MODULE)	_	Connector Type TH40FB-NH	4	AHIT	<u> </u>	23456789 12131415 17118	[21   23   25   27   28   29   31   32   33   34   35   39   37   38   39   40			Terminal Color Of		2 BRW COMBI SW INPUT 5			5 G COMBI SW INPUT 2	6 L/R COMBI SW INPUT 1	7 W/R KEY CYL UNLOCK SW	8 W/B KEY CYL LOCK SW	9 R STOP LAMP SW 1
Γ	Connector No. Miss	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FW-NH	1				n 83		,	<u>B</u>	No. Wife	BRW	$^{+}$		9 9	W/R		9 R STOP LAMP SW	10 W/L REAR WINDOW DEFOGGER SW		12 SB PASSENGER DOOR SW	13 GR/L REAR RH DOOR SW	Н	BR	G/Y KEYLE	P/L	¥ } }	2] 8	GK IHERMO	1/6	28 G/W BLOWER FAN SW	G.Y.	5	W.	×	R/L	0/1	RW	O IGNITT	_	40 P CAN-L				
Γ	Connector No. Mb/	Connector Name CVT SHIFT SELECTOR	Connector Type TH08FW-NH			K	Ŀ		9 9		ag Ig		+	- P	Ť	$^{+}$	╁	1		Connector No. M58	Comparator Name Allest SEI ECTOR		Connector Type TH08FW-NH	ď			1 2 3 4	1 1	C Q / 8			No Wire Signal Name [Specification]	$^{+}$	2 8	3 W	F	H	$\vdash$	r	8 G/Y						
ATION TO THE	CONTINUE CONTINUE DE LA CONTINUE DE	6 K/W SENSOR GROUND 9 Y IGNITION POWER SUPPLY	B/R	L FRE DRI	9	В	BR A/MIX DR	18 SB A/MIX DRIVE SIGNAL 3	P A/MIX DRI			Connector No. M53	Connector Name A/C CONTROL	Connection Times Till Coll Mills		4		Si Si	1 4 5 6 8	0 10 11 12 13 14 15 16	1 1 1 1		nal	olgikil relitie	1 W	+	+	+	+	+	+	42 VB	+	╀	15 B	┞										

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	LG/R	GRW	9	B/W	Z/	0	æ	>	R/W	PUW	W/L	W/B	Y/R	PT	SHIELD	P/B	R/G	<u>د</u>	W/G	GR/R	0	PC	۵.	-	£ 5	Y/5 a	2 22	0	<b>&gt;</b>	R/B	<u>}</u> ;		BRW	>	Ľ													
	45	46	48	21	23	54	24	29	09	61	62	63	29	69	70	71	22	2 7	1,76	11	78	79	80	8	8 83	80 80	5 5	95	93	8 8	95	8 6	86	8	100													
	M72	DIODE		24335_C9900			Ę	4	1 2				Signal Nama [Specification]					M27		WIRE TO WIRE	TH80FW-CS16-TM4				2 2 3 5 6	7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			Signal Name [Specification]	Townson of Townson on St.																		
	Connector No.	Connector Name		Connector Type	4	ほ	Ę	ė E					nal O	No. Wire	1 B/R	2 BR/R		Occasion Ma	COLLECTOR NO.	Connector Name	Connector Type	ģ	厚	S I	2				Da C	No. Wire	+	3 2 X	t	t	7 9	$\forall$	$^{+}$	9 V/L	+	$^{+}$	32 CIB	+	+	+	+	+	44 G/0	
	M71	BCM (BODY CONTROL MODULE)	,	TH40FW-NH				7	72 75 76 78 78 88 81 22 83 84 55 84 87 89	81 82 83 88 89 189 189 180 180 180 180 180 180 180 180 180 180			Simple Mome (Consignation)	orginal realine [opecification]	A/C INDICATOR OUTPUT	DRIVER DOOR REQUEST SW	PUSH SW	DRIVER DOOR ANI +	PASSENGER DOOR ANT+	PASSENGER DOOR ANT-	BACK DOOR ANT+	BACK DOOR ANT-	ROOM ANT+	ROOM ANT-	LUGGAGE ROOM ANT+	PUSGAGE KOOM ANI-	ACCON IND	PUSH-BUTTON IGNITION SW ILL GND	I-KEY WARN BUZZER	ACC RELAY CONT	STARTER RELAY CONT	IGN RELAY (IPDM E/R) CONI	PASSENGER DOOR REQUEST SW	SHIFT NP	FR DEFROSTER SW	CVT SHIFT SELECTOR POWER SUPPLY	STOP LAMP SW 2	BLOWER FAN MOTOR RELAY CON										
			Т					_					Color Of	Wire	SB	SB	9 9	2 >	BR/Y	∖	W/B	B/W	Y/G	Υ'L	۵.	7	۸ ۸	BR/R	GR/W	BR/W	H G	W/R	9	0	G/Y	Y/R	B/O	Y/B										
	Connector No.	Connector Name		Connector Type	4	修	Ę	ė					ā	No.	72	75	76	0 6	80	81	82	83	84	82	88	/8	9	92	93	96	97	8 8	100	102	103	104	105	106										
ILLUMINATION	CENTRAL DOOR LOCK SW	CENTRAL DOOR UNLOCK SW	OPTICAL SENSOR	REAR WINDOW DEFOGGER SW	OPTICAL SENSOR POWER SUPPLY	SENSOR GND	NATS ANTENNA AMP.	SECURITY INDICATOR LAMP	NATS ANTENNA AMP.	A/C S/W		HAZARD SW		COMBI SW OUTPUT 5	COMBI SW OUTPUT 4	COMBI SW OUTPUT 3	COMBI SW OUTPUT 2	COMBI SW COLFUL I		CANH	CAN-L			M70	BCM (BODY CONTROL MODULE)	CCADOCM CHAS SA	Cool Will Dock			<b>7</b> 56 57 59 60 61 63	65 66 67 68 69 70	8			Signal Name [Specification]	INTERIOR ROOM LAMP POWER SUPPLY	BAT (FUSE)	PASSENGER DOOR UNLOCK OUTPUT		BOOM AND TIMED CONTROL	ALL DOOR LOCK OLITRIE	DEIVER DOOR LIN OOK OFFER	GROLIND	DOWED WINDOW DOWED SLIDD! Y JOHN	POWER WINDOW FOWER SUFFER (ISIN)	POWER WINDOW POWER SUPPLY (BAT)	BAT (F/L)	
JMIN	GR	æ	2	W/L	R/G	>	P/L	R/Y	97	0	G/W	ΛV	G/B	97	Y/L	3	z 9	2 5	26	-	۵			Connector No.	Connector Name	Contrator	) J	_	,,	5				Terminal Color Of	Wire	4	> (	9	G/M	N/L	<u></u>	. 9	9 4	_ د	١	1	>	
	12	13	14	12	17	18	21	23	22	27	28	53	31	32	33	34	32	3 2	8	39	40			onnect	nnect	- Joodes		個	Ę	1				rmina	No.	99	22	60	3 2	5 8	3 8	3	3 6	69	3 8	20	2	

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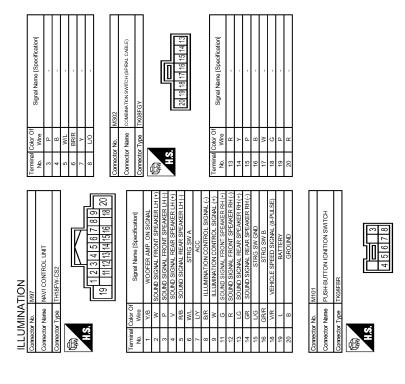
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< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

# BCM (BODY CONTROL MODULE) WITH INTELLIGENT KEY

WITH INTELLIGENT KEY: Reference Value

#### INFOID:0000000010262818

#### VALUES ON THE DIAGNOSIS TOOL

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM
----------------------

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FR WIPER TI	Front wiper switch HI	On
ED WIDED LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
ED MACHED OW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED OTOD	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
DD WIDED ON	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
DD WIDED INT	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
DD WACHED OW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
DD WIDED STOD	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TUDNI CIONAL D	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 LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAIVIP SVV	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
HI BEAIN SW	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
HEAD LAWIF SW 1	Lighting switch 2ND	On
HEAD LAMD SW 2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DASSING SW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On

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Monitor Item	Condition	Value/Status
AUTO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOC SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
DOOD OW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD OW 40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD OW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
2002 014 21	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
2002 014 214	Back door closed	Off
DOOR SW-BK	Back door opened	On
00110011011	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
	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
(/E)/ ()//	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
TR/BD OPEN SW	NOTE: The item is indicated, but not monitored.	Off
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
	Blower fan OFF	Off
FAN ON SIG	Blower fan ON	On
AID COND CIT	Air conditioner OFF (A/C switch indicator OFF)	Off
AIR COND SW	Air conditioner ON (A/C switch indicator ON)	On
DIVE I OOK	LOCK button of the key is not pressed	Off
RKE-LOCK	LOCK button of the key is pressed	On
DIVE LINII COV	UNLOCK button of the key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the key is pressed	On
DIVE TO OD	BACK DOOR OPEN button of the key is not pressed	Off
RKE-TR/BD	BACK DOOR OPEN button of the key is pressed	On
DIVE DANIC	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
DIVE MODE OF S	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the key is pressed and held simultaneously	On

Monitor Item	Condition	Value/Status
DTI CEN (DTCT)	Bright outside of the vehicle	Close to 5 V
OPTI SEN (DTCT)	Dark outside of the vehicle	Close to 0 V
DTI OFN (FILT)	Bright outside of the vehicle (Lighting switch AUTO)	Close to 5 V
OPTI SEN (FILT)	Dark outside of the vehicle (Lighting switch AUTO)	Close to 1.50 V
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	Off
RAIN SENSOR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -DR	Driver door request switch is not pressed	Off
(LQ OW -DIC	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
REQ 3W -A3	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
'FA 2M -DD/ 1K	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
70311 344	Push-button ignition switch (push switch) is pressed	On
CLUCH SW	The clutch pedal is not depressed.	Off
LUCH SW	The clutch pedal is depressed	On
DDAKE CW 4	The brake pedal is not depressed	Off
RAKE SW 1	The brake pedal is depressed	On
	The brake pedal is depressed when No. 9 fuse is blown	Off
RAKE SW 2	The brake pedal is not depressed when No. 9 fuse is blown, or No. 9 fuse is normal	On
DETE/CANOL CVA	Selector lever in P position	Off
ETE/CANCL SW	Selector lever in any position other than P	On
ET DNIALOW	Selector lever in any position other than P and N	Off
FT PN/N SW	Selector lever in P or N position	On
/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
JNLK SEN -DR	Driver door is locked	Off
INLK SEIN -UK	Driver door is unlocked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
OSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
ON DIVA E/D	Ignition switch in OFF or ACC position	Off
GN RLY1 -F/B	Ignition switch in ON position	On
DETE CIAL IDDA	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On

Monitor Item	Condition	Value/Status
SFT P -MET	Selector lever in any position other than P	Off
SFI F-WEI	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
SI I IN -IVIL I	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
LINGING STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
FRWI LING STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFINIVI IDS	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFINITION	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
NOT REGISTERED	BCM detects registered key ID, or BCM does not detect key ID.	ID OK
NOT REGISTERED	BCM detects non-registration key ID.	ID NG
TP 4	The ID of fourth key is not registered to BCM	Yet
174	The ID of fourth key is registered to BCM	Done
TP 3	The ID of third key is not registered to BCM	Yet
1173	The ID of third key is registered to BCM	Done
TD 0	The ID of second key is not registered to BCM	Yet
TP 2	The ID of second key is registered to BCM	Done
TD 4	The ID of first key is not registered to BCM	Yet
TP 1	The ID of first key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGOTTET	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet
ID DECCT DD4	ID of rear RH tire transmitter is registered	Done
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
MADNING LAND	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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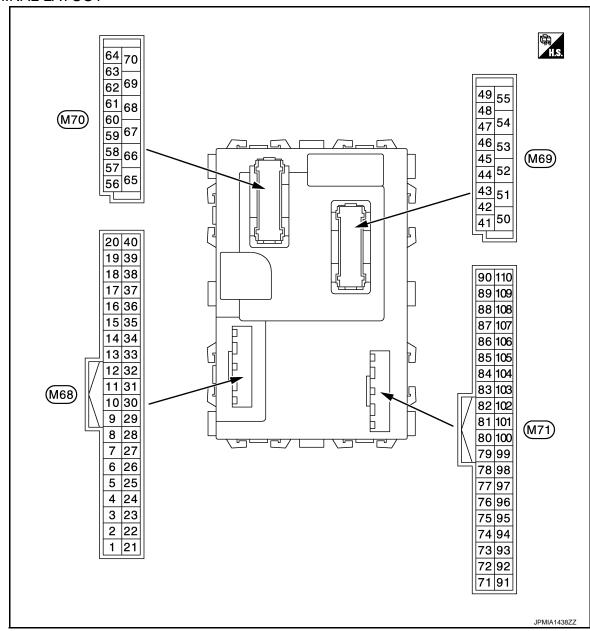
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#### **TERMINAL LAYOUT**



#### NOTE:

Connector color

M68, M70: BlackM69, M71: White

PHYSICAL VALUES

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	0 V
					Turn signal switch RH	
					Lighting switch HI	(V) 15 10 5
2	Ground	Combination switch	Input	Combination switch	Lighting switch 1ST	0 ++10ms PKIB4958J
(BR/W)	Gloana	INPUT 5	mpa.	(Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1
					All switch OFF	0 V
					Turn signal switch LH	
					Lighting switch PASS	(V) 15
3 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch 2ND	→ +10ms 1.0 V
(5.1)				tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 ++10ms PKIB4956J 0.8 V
					All switch OFF	0 V
					Front wiper switch LO	
4 (L/Y)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch MIST Front wiper switch INT	(V) 15 10 5 0
					Lighting switch AUTO	+
						PKIB4958J 1.0 V

	nal No.	Description			0 1111	Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	(V)
					Rear washer ON (Wiper intermittent dial 4)	10 5 0
5 (G)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	→ +10ms PKIB4958J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 → +10ms
						0.8 V
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V) 15
					Rear wiper switch INT (Wiper intermittent dial 4)	10 5 0
					Wiper intermittent dial 3 (All switch OFF)	++10ms PKIB4958J
6 (L/R)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2	(V) 15 0 10 10 10 10 10 10 10 10 10 10 10 10 1
					Any of the condition below with all switch OFF  • Wiper intermittent dial 6  • Wiper intermittent dial 7	(V) 15 10 5 0 +10ms PKIB4956J 0.8 V

Terminal No. Description (Wire color)					Value	
(Wire	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)
7 (W/R)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					UNLOCK position	0 V
8 (W/B)	Ground	Door key cylinder switch LOCK	Input	Door key cylin- der switch	NEUTRAL position  LOCK position	12 V 0 V
9				Stop lamp	OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Stop lamp switch 1	Input	switch	ON (Brake pedal is depressed)	Battery voltage
12 (GR)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V
					LOCK position	0 V
13 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 10 ms 10 ms 1.0 - 1.5 V
					UNLOCK position	0 V
14	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(L/G)	0.00	- Cp.130.		ON	When dark outside of the vehicle	Close to 0 V
15 (W/L)	Ground	Rear window defog- ger switch	Input	Rear window defogger switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V
					Pressed	0 V
17	Ground	Optical sensor pow-	Output	Ignition switch	OFF, ACC	0 V
(R/G)	Sibulid	er supply	Juipui	iginaon switch	ON	5 V

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
18 (V)	Ground	Sensor ground	Input	Ignition switch ON		0 V
21 (P/L)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key: Intelligent Key battery is re- moved	Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed	(V) 15 10 5 0 → 40ms JMKIA6232JP
					Brake pedal: Not de- pressed	12 V
23 (R/Y)	Ground	Security indicator lamp	Output	Security indicator	ON  Blinking (Ignition switch OFF)	0 V  (V) 15 10 5 0 JPMIA0590GB 12.0 V
					OFF	Battery voltage
25 (LG)	Ground	NATS antenna amp.	Input/ Output	During waiting	Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed	(V) 15 10 5 0 → ←40ms JMKIA6233JP
					Brake pedal: Not de- pressed	12 V
27 (O)	Ground	A/C ON	Input	A/C	OFF (A/C switch indicator: OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V
					ON (A/C switch indicator: ON)	0 V
					Blower fan switch OFF	0 V
28 (G/W)	Ground	Blower fan switch	Input	Fan switch	Blower fan switch ON	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V

	nal No. color)	Description			Condition	Value		
+	-	Signal name	Input/ Output		Condition	(Approx.)		
29 (L/W)	Ground	Hazard switch	Input	Hazard switch	OFF ON	12 V 0 V		
31 (G/B)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 **10ms PKIB4960J 7.0 - 8.0 V		
					UNLOCK status (Unlock sensor switch ON)	0 V		
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J		
32 (LG)	Ground	Combination switch OUTPUT 5		Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)  Rear wiper switch ON (Wiper intermittent dial 4)  Any of the condition below with all switch OFF	7.0 - 8.0 V		
					<ul> <li>Wiper intermittent dial 1</li> <li>Wiper intermittent dial 2</li> <li>Wiper intermittent dial 6</li> <li>Wiper intermittent dial 7</li> </ul>	PKIB4956J 1.0 V		
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J		
33	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	7.0 - 8.0 V		
(Y/L)		0017014			Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10		
					Rear wiper switch INT (Wiper intermittent dial 4)	5 0 ++10ms		
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	PKIB4958J		

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
34 (W)	Ground	Ground Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	5
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	PKIB4958J 1.2 V
		Combination switch OUTPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J
35 (R/L)	Ground				Lighting switch 2ND	7.0 - 8.0 V
					Lighting switch PASS	(V) 15
					Front wiper switch INT	10 5 0
					Front wiper switch HI	PKIB4958J
36	Cround	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
(L/O)	Ground	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	(1)
				tent ulai 4)	Turn signal switch LH  Front wiper switch LO (Front wiper switch MIST)	(V) 15 10 5
					Front washer switch ON	+10ms PKIB4958J
						1.2 V

	nal No. color)	Description			•	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Selector lever P po-	Input	Selector lever	P position	0 V
(G/O)	Glodila	sition switch	mput	Selector level	Any position other than P	12 V
					Waiting	12 V
				Ignition switch OFF (Remote keyless entry communication)	When operating either button on Intelligent Key	(V) 15 10 5 0 200 ms JMMIA0572GB
38 (G/Y)	Ground	Receiver communication	Input/ Output	Ignition switch ON (TPMS communication)	Waiting	(V) 15 10 5 0 100 ms
					When receiving signal from tire pressure sensor	(V) 15 10 5 0
39 (L)	Ground	CAN-H	Input/ Output		_	JMMIA0574GB
40 (P)	Ground	CAN-L	Input/ Output		_	_
43 (W)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) 15 10 5 0 PKIB4960J 9.5 - 10.0 V
					ON (When back door opened)	0 V
44		Poor winer step po		Ignition switch	Rear wiper stop position	12 V
44 (LG)	Ground	Rear wiper stop position	Input	ON Switch	Any position other than rear wiper stop position	0 V

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
45 (SB)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) 15 10 5 0 
					ON (When passenger door opened)	0 V
46 (GR/L)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closed)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					ON (When rear RH door opened)	0 V
47 (BR/Y)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 *** 10ms PKIB4960J 7.0 - 8.0 V
					ON (When driver door opened)	0 V
48 (W/G)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closed)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					ON (When rear door LH opened)	0 V
50	Ground	Back door lock actu-	Output	Back door	LOCK (Actuator is activated)	0 V
(R/W)	2.334	ator relay control		2.5.1.2.30.	Other than LOCK (Actuator is not activated)	Battery voltage
51 (W)	Ground	Back door request switch	Input	Back door re-	ON (Pressed)	0 V
		SWILCH	•	quest switch	OFF (Not pressed)	12 V
54 (LG)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped) ON (Activated)	0 V 12 V
(-0)					ON (Activated)	IZ V

(Mire color)		Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
55	Ground	Rear door UNLOCK	Output	Rear door	UNLOCK (Actuator is activated)	12 V
(G)	Ground	Near door on Look	Trodi door	rtear door	Other than UNLOCK (Actuator is not activated)	0 V
					p battery saver is activated. room lamp power supply)	0 V
56 (L)	Ground	Interior room lamp power supply	Output	vated.	p battery saver is not acti- rior room lamp power sup-	12 V
57 (Y)	Ground	Battery power sup- ply	Input	Ignition switch Ol	FF	Battery voltage
59		Passenger door UN-	0 1 1		UNLOCK (Actuator is activated)	12 V
(G)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V
					Turn signal switch OFF	0 V
60 (W/B)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s PKIC6370E
					Turn signal switch OFF	6.0 V 0 V
61 (W/L)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0
					OFF	6.0 V
63 (BR)	Ground	Interior room lamp control signal	Output	Interior room lamp	OFF	0 V
65	_	-		·	LOCK (Actuator is activated)	12 V
(V)	Ground	All doors LOCK	Output	All doors	Other than LOCK (Actuator is not activated)	0 V
66	Crown	Driver door UN-	O. stor . st	Driver des-	UNLOCK (Actuator is activated)	12 V
(L/B)	Ground	LOCK	Output	Driver door	Other than UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V
68 (L)	Ground	P/W power supply (IGN)	Output	Ignition switch O	N	12 V
69	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V

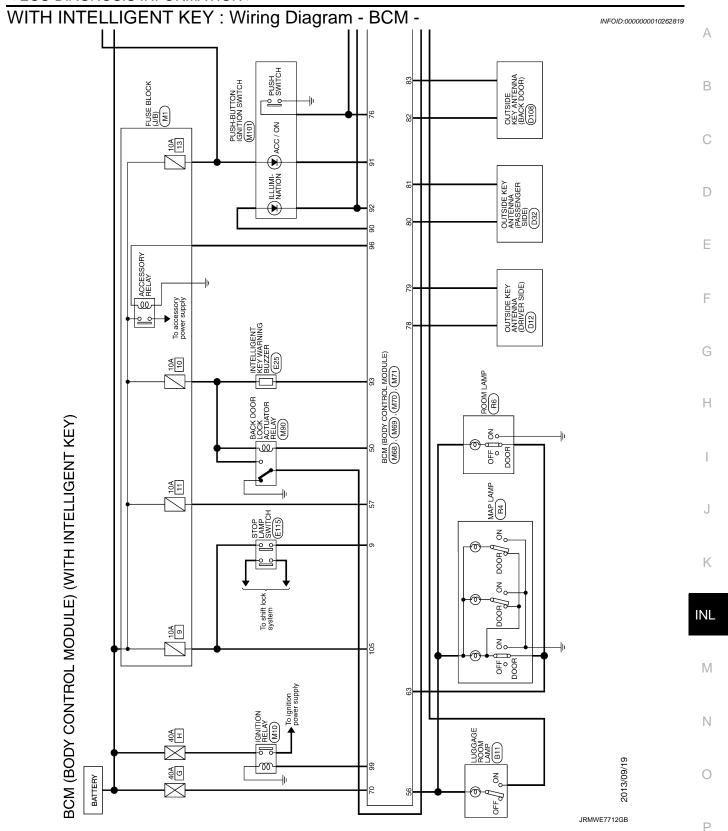
	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
72	Ground	A/C indicator	Output	A/C indicator	OFF	12 V
(SB)	Oroana	7 V O III diodici	Catpat	, vo maleator	ON	0 V
75 (OD)	Ground	Driver door request	Input	Driver door re-	ON (Pressed)	0 V
(SB)		switch	'	quest switch	OFF (Not pressed)	12 V
76	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(L/O)	Orouna	switch (push switch)	mpat	(push switch)	Not pressed	12 V
78	Ground	Driver door antenna	Output	When the driver door request switch is operat- ed with ignition switch ON	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 5 500 ms  JMKIA5954GI
(LG)	Glound	(+)	Output		When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0  JMKIA5955GI
79	Ground	Driver door antenna	Outout	When the driver door request switch is operat- ed with ignition switch ON	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 500 ms  JMKIA5954GE
(V)	Ground	(-)	Output		When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 JMKIAS955GI

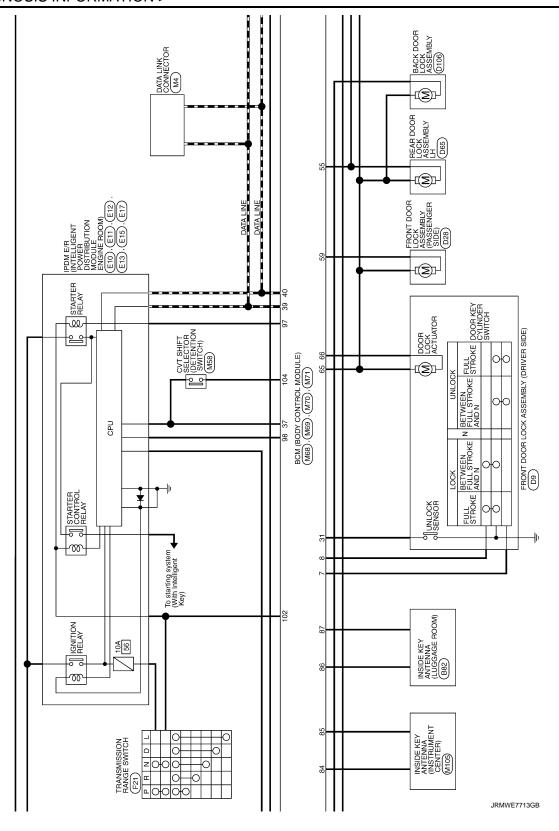
	nal No. color)	Description	1		Condition	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	77
80	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB	B C
(BR/Y)	Ciodila	tenna (+)	σαιραί	operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 500 ms	E
81		Passenger door an-		When the passenger door re-	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB	G H
(L/Y)	Ground	tenna (-)	Output	quest switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 500 ms  JMKIA5955GB	J K
82		Back door antenna		When the back door request	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA5954GB	M
(W/B)	Ground	(+)	Output	switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 JMKIA5955GB	O

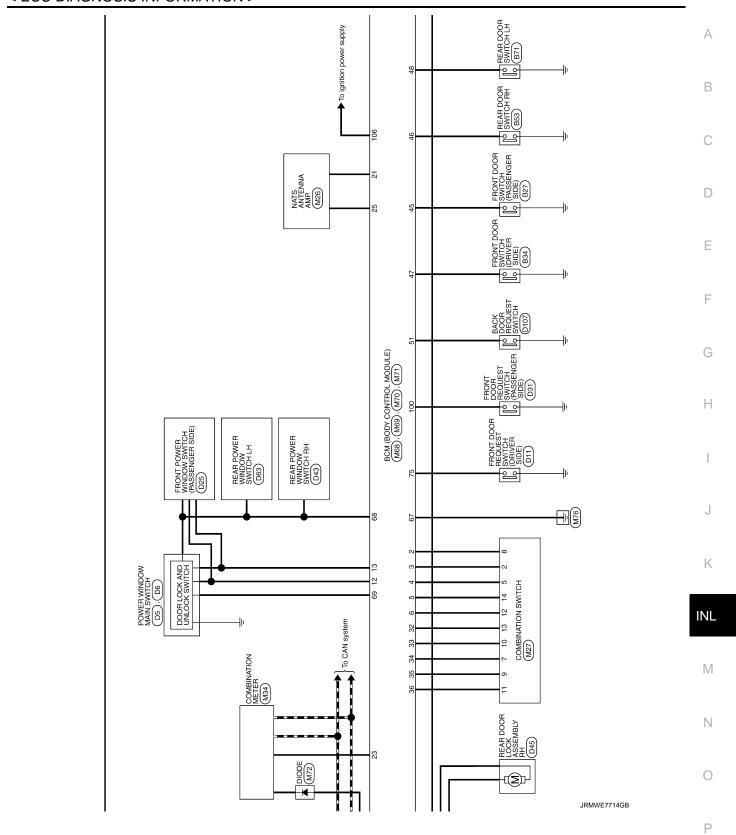
	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
83	Occupation	Back door antenna (-	0.4.4	When the back door request	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 5 500 ms  JMKIA5954GB
(B/W)	Ground	)	Output	switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	(V) 15 10 5 0  JMKIA5955GB
84	Ground	Room antenna (+)	Output	Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 11 1 s  JMKIA5951GB
(Y/G)	Cround	(Instrument center)	Cuipui	ON	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
85	Ground	Room antenna (-)	Output	Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB
(Y/L)	Glound	(Instrument center)	Output	ÓN	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB

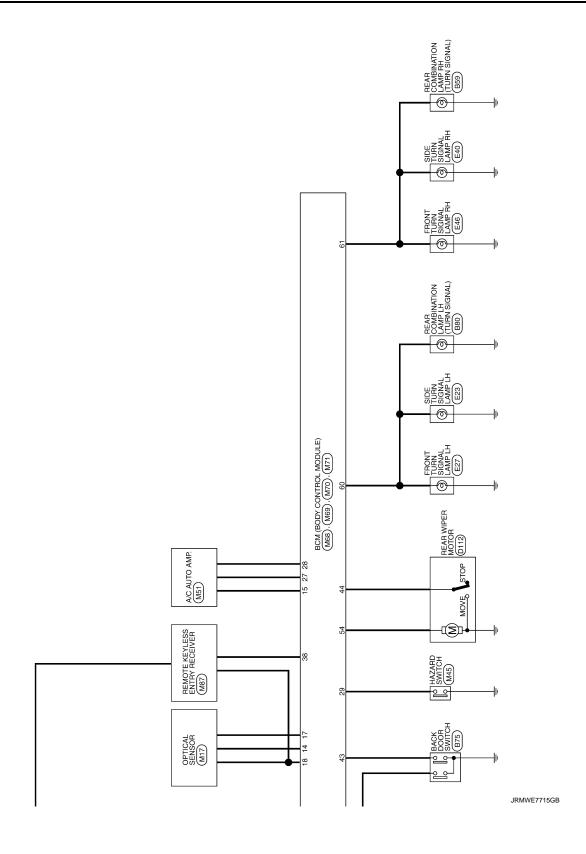
nal No.	Description				Value	
color)	Signal name	Input/ Output		Condition	(Approx.)	
	Luggage room an-		Ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1   1   1   1   1   1   1   1   1   1	
Ground	tenna (+)	Output	ŎN	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB	
					(V)	
				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0	
Ground	Luggage room antenna (-)	Output	Ignition switch ON		JMKIA5951GB	
				When Intelligent Key is in the antenna detection area	(V) 15 10 0 1 s JMKIA3839GB	
	Duck hutter inviting		Push-button ig-	ON	12 V	
Ground	switch illumination	Output	nition switch illu-	OFF	0 V	
Ground	ACC/ON indicator lamp	Output	Ignition switch	OFF ACC or ON	Battery voltage 0.5 V	
				OFF	0 V	
Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position  (V) 15 10 5 0 10 ms	
	Ground  Ground  Ground	Ground Signal name  Luggage room antenna (+)  Ground Luggage room antenna (-)  Ground Push-button ignition switch illumination  Ground ACC/ON indicator lamp  Push-button ignition switch illumination	Ground Push-button ignition switch illumination Ground Push-button ignition switch illumination Signal name Output Push-button ignition switch illumination Output Push-button ignition switch illumination Output Push-button ignition Switch illumination Output Outpu	Ground   Luggage room antenna (+)   Output   Ignition switch ON    Ground   Luggage room antenna (+)   Output   Ignition switch ON    Ground   Luggage room antenna (-)   Output   Ignition switch ON    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   ACC/ON indicator lamp   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch illumination    Ground   Push-button ignition switch illumination   Output   Ignition switch   Output   Ignition switch illumination   Output   Ignition switch   Output   Ignition   Output   Ignition   Output   Ignition   Output   Output	Ground Luggage room antenna (+)  Ground Push-button ignition switch illumination  Ground ACC/ON indicator lamp  Ground Push-button ignition switch illumination  Ground Switch illumination  Ground Push-button ignition  Ground Push-button ignition  Ground Push-button ignition  Ground Switch illumination  Ground Switch illumination  Ground Push-button ignition  Ground Push-button ignition  Ground Switch illumination  Ground Push-button ignition  Ground Push-button	

	nal No.	Description				Value	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
93	Craund	Intelligent Key warn-	Outrout	Intelligent Key	Sounding	0 V	
(GR/W)	Ground	ing buzzer	Output	warning buzzer	Not sounding	12 V	
96	Cround	ACC relevisiontral	Quitaut	Ignition quitab	OFF	0 V	
(BR/W)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	12 V	
97		Starter relay control	Output	Ignition switch	When selector lever is in P or N position	Battery voltage	
(L/R)	Ground	Starter relay control	Output	ON	When selector lever is not in P or N position	0 V	
98	Ground	Ignition relay (IPDM	Outout	Output Ignition switch -	OFF or ACC	12 V	
(BR)	Ground	E/R) control	Output		ON	0 V	
99	Ground	Ignition relay control	Output	Ignition switch	OFF or ACC	0 V	
(W/R)	Giodila	ignition relay control	Output	igilition switch	ON	12 V	
100		Passenger door re-	Input	nput Passenger door request switch	ON (Pressed)	0 V	
(G)	Giound	quest switch	input		OFF (Not pressed)	12 V	
102	O2 Ground Selector lever P/N	Input	Selector lever	P or N position	Battery voltage		
(G)	Ground	position	iriput	Selector level	Except P and N positions	0 V	
					A/C mode defroster ON position	0 V	
103 (G/Y)	Ground	Front defroster switch	Input	Ignition switch ON	Other than A/C mode de- froster ON position	(V) 15 10 5 0 **-2ms JPMIA0589G 8.0 - 9.0 V	
104 (Y/R)	Ground	CVT shift selector (detention switch) power supply	Output	Ignition switch ON		12 V	
105 (B/O)	Ground	Stop lamp switch 2	Input	Ignition switch OFF		Battery voltage	
106	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V	
(Y/B)	Ciouna	lay control	Guipui	iginuon switon	ON	12 V	









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Connector No. B80  Connector Name REAR COMBINATION LAMP LH  Connector Type RSJØFE P-PR  Terminal Coor Of Signal Name (Specification)  Connector Name RSZ  Connector Na	
Terminal Color Of No. Wive Signal Name [Specification]  1	
MODULE) (WITH INTELLIGENT KEY)  Corrector Name FRONT DOOR SWITCH (DRIVER SIDE)  Corrector Name FRONT DOOR SWITCH (RH  Corrector Name FRAR DOOR SWITCH RH  Corrector Name FRAR DOOR SWITCH RH  Corrector Name FRAR DOOR SWITCH RH  Corrector Name FRAR COMBINATION LAMP RH  CORRECTOR RESIDER PR	
BCM (BODY CONTROL MODULE)  Convector Name LucGAGE ROOM LAMP  Torrector Type Convector Name Front brown Specification  Torrector Name Front brown Signal Name (Specification)  Torrector Name Front brown Signal Name (Specification)  Convector Name Front brown Signal Name (Specification)  Torrector Name Front brown Signal Name (Specification)	
	JRMWE7818GB

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BCM (BODY CONTROL MODULE) (WITH	OL MODULE) (WITH INTELLIGENT KEY)	Compositor No. 1712	Connector No 1028
ne POWER WINDOW MAIN SWITCH	Connector Name FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)	e e	e e
Connector Type NS16FW-CS Conne	Connector Type E06FGY-RS	Connector Type RK02MGY	Connector Type E06FGY-RS
<b>B</b>		< **	Œ
.S. [112]3 [ [ ] 5 6 7]	S	H.S.	HS.
8 9 10 11 12 13 15 16	(1 2 3 4 3 6)		
Terminal Color Of Signal Name [Specification] Termin No. Wire No.	erminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification] No. Wire	Terminal Color Of Signal Name [Specification] No. Wire
	Н	Н	Н
Н	4	2 V .	·
	+		
\\	20 -	Councedant No.	Commendate Mis POS
2 2 2	- N	CONTRECTOR INC.	
	-	Connector Name FRONT POWER WINDOW SWITCH (PASSENGER SIDE)	Connector Name FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
┝		Connector Type NS12FW-CS	Connector Type RK02FGY
	Connector No. D11	1	
	Consector Name FRONT DOOR REGIST SWITCH (DRAVER SIDE)		
SB -		10111311	
	Connector Type RK02FGY	1 - '	
15 6		6 7 8 11112	
	<		)
	HS.		
Connector No. D6	((112))	a a	<u>a</u>
Connector Name POWER WINDOW MAIN SWITCH		No. Wire	No. Wire
Connector Type NS03FW-CS		2 BR	2 LG
Temir	Ferminal Color Of Signal Name [Specification]	. · ·	
	T	H	
	BR .	Н	
17 18 19		11 SB -	
Terminal Color Of Signal Name [Specification] No. Wire			
Н			
18 GR -			

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					А
T SWITCH	pecification]	MA (BACK DOOR)	pecification)		В
D107  BACK DOOR REQUEST SWITCH  RKGZFGY	Signal Name [Specification]	D108 OUTSIDE KEY ANTENNA (BACK DOOR) RR02MGY	Signal Name (Specification)		С
Cornector No. Cornector Type Cornector Type H.S.	Terminal Color Of No. Wire 1 W	Cornector No.	Terminal Color Of No. Wire 1 BR 2 R		D
NY LH	ation]		ation		Е
D66 REAR DOOR LOCK ASSEMBLY LH E06FGY-RS	Signal Name [Specification]	PING BACK DOOR LOCK ASSEMBLY FEAGAFB-FHA2-LC	Signal Name [Specification]		F
0 0	Terminal Color Of No. Wire 1 V 2 G	9 0	Terminal Color Of No. Whee 2 GR 3 YY		G
Cornector No. Cornector Type H.S.	Termina No.	Corrector No.	1 Termina No. 2 2 2 3 3 3 3		Н
LIGENT KEY) D45 REAR DOOR LOCK ASSEMBLY RH E06FGY-RS  THE	Signal Name [Specification]	DB3 REAR POWER WINDOW SWITCHLH INSUGEW-G3  2 3 4 5 1	Signal Name (Specification)		ı
TTELLIGEN  AS D45  Bame REAR DOO!  Type EGFGY-RS					J
Connector Name Connector Name Connector Name Connector Type H.S.	Terminal Color Of No. Wire 5 W	Corrector No. Corrector Name Corrector Type	Terminal Color Of No.   Wire   Virginial Color Of   Virginial Color Of		K
BCM (BODY CONTROL MODULE)  Connector No. 1022  Connector Name Oursper REYANTENEN PASSENCERS SIDE)  Connector Name Oursper REYANTENEN PASSENCERS SIDE)  Connector Type REGIZENCY  Connector Type REGIZENCY  Connector Type Connector Name REAR DOOR LOCK ASSENCENCERS  Connector Type REGIZENCY  Connector Type Connector Name REAR DOOR LOCK ASSENCENCENCENCENCENCENCENCENCENCENCENCENCE	Signal Name [Specification]	D43 REAR POWER WINDOW SWITCH RH INSUGEW.CS  2 3 4 5 1	Sgrai Name [Specification]		INI
DY CONTROL MODU  DB2  OUTSDE KEYANTENIN (PASSENGER SDE)  RROZMGY	Signal Name	PASSER WIN	Signal Name		M
BCM (BODY Connector No. 023 Connector Nose REG	Terminal Color Of No. Wire 1 P	Corrector No. D13 Corrector Name REAL Corrector Type NSSR	Terminal Calor Of Wife No. Wife No. 2 BR R R R G G G G G G G G G G G G G G G		N
					0
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59   Y		Terminal Color Of   Terminal Color Of   Wire   Signal Name [Specification]   No. Wire   64   R   64   R   66   L   68   L   68   C   69   69   69   69   69   69   69	Corrector No. E23 Corrector Name SIDE TURN SIGNAL LAMP LH Corrector Type STLOSEW	HS.	Terminal Color Of   Signal Name   Specification	
Corrector No. E13 Corrector Name Prote 46 MTL. Lotter Towner Desire Ecolor Corrector Type TH12FW-NH  TH3	23   27   26   25   24   34   34   34   34   34   34   34	30 SP	Cornector No. E16 Cornector No. E16 Cornector No. E16 Cornector No. E16 Society E16 Societ	H.S. (22 6160 100 100 100 100 100 100 100 100 10	<u>a</u>	50 GR
DL MODULE) (WITH INTELLIGENT KEY)  Corrector No. E11  Corrector None (en returnent rowen connector)  Corrector Type MofFELC  The MofFELC  Corrector Type MofFELC	Terminal Color Of Signal Name (Specification)   9   Wive   9   Wive   10   L	Corrector No. E12 Corrector Name Proven Control Corrector Name Proven Control Corrector Type NSGRERICS	H.S. [22 27] 19 18	Terminal Color Of   Signal Name   Specification   No.   Whre   Signal Name   Specification   18   Y   19   EVW   22   V   22   V		
BCM (BODY CONTROL MODULE) Connector No. D112 Connector Name REAR WIPER MOTOR Connector Type C.104FW-1V	3   4	Corrector No. E10 Corrector Name From E10 Corrector Name From E10	H.S. 8 7 6	Terminal Color Of   Signal Name   Specification	7 Y S	

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Corrector No. M1 Corrector Name FLISE BLOCK (J/B) Corrector Type 24311 ED000 H.S.	Terminal   Color Of   Signal Name   Specification   Number   Num	
Corrector No. E115 Corrector Name STOP LAMP SWITCH Corrector Type MO4FW.LC    1 2	Terminal Color Of   Signal Name   Specification   No.   Wire	
WITH INTELLIGENT KEY)  Corrector Name SIDE TURN SIGNAL LAMP RH Corrector Type STLOZEW  (1)	Terminal Color Of Signal Name (Specification)  1 W/Vire  2 B/Y  Corrector Name FRONT TURN SIGNAL LAMP RH  Corrector Name RS02FB  Terminal Color Of Signal Name (Specification)  No. Write  2 B/Y  Signal Name (Specification)	
BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)  Connector No. E25  Connector No. E40  C	Terminal Color Of Signal Name [Specification]  1 V	
		JRMWE7822GB

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Corrector No. M45 Corrector Name IHAZARD SWITCH	Connector Type TK04FW		Terminal Co	2 LW	8	SE) [Without NAVI] 4 B/R -	JUSE JWITT NAVI	JAL Connector No. M51	MITCH SIGNAL Connector Name A/C AUTO AMP.	Connector Type TK16FGY		<b>唐</b>	121 221 25 24 25 28 27			Terminal Color Of	No. Wire	D 21 BR WATER TEMPERATURE SIGNAL	23 0	L 24 G	25 P	26 SB	GNAL 2/ R REAK WINDOW DEFOGGER F/B SIGNAL 29 GR MODE DRIVE SIGNAL 4	<u></u>	<b>&gt;</b>	32 V MODE DRIVE SIGNAL 1	W/L REAR WIND	Y/G	35 G/W BLOWER FAN ON SIGNAL
Corrector No. M34 Corrector Name COMBINATION METER	Connector Type TH40FW-NH	H.S.	Terminal Color Of Signal Name [Specification] No. Wire	2 P CAN-H	> 2	4 L VEHICLE SPEED SIGNAL (8-PULSE) [Without NAVI	6 BR/Y	R/G	8 P OVERDRIVE CONTROL SWITCH SIGNA 9 O SEATBELT BUCKLE SWITCH SIGNA ORDER SDEV	SB	G/R BF	13 B/R ILLUMINATION CONTROL SIGNAL	18 R/Y SECURITY SIGNAL	RW	21 B GROUND	23 B	PU FUEL LE	25 B VDC GROUND	GR	29 BR PASSENGER SEAT BELT WARNING SIGNA	œ	BR ENGINE	38 GK ALIEKNATOK SIGNAL	Τ	<u> </u>			1	T
BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) Connector No. M10 Connector No. M26 Connector Name (INTION RELAY Connector Name (INTION RELAY)	Connector Type TH04FW-NH	H.S.	erminal Color Of Signal Name [Specification]	2 P/L CLK	8	3 LG DATA [With Intelligent Key]	Te D		Connector No. M27	9	- 1	Connector Type TH16FW-NH		.S.	0 10 11 12 13	7 1 0	-	erminal Color Of Signal Name [Specification]	╁		R/G WAS	M.	L/Y COLPOL 3	- A	2	9 R/L INPUT 2	\/\	0/1	12 L/R OUTPUT 1
5,2	8 8	45	Ter		Ш		4 4		Conne	2	3	S	售	~			L	E S	-	2	m	4	n y		Ľ		Ш		

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### < ECU DIAGNOSIS INFORMATION >

83 BW BACK DOOR ANT-   84 Y/G ROOM ANT+   85 Y/L ROOM ANT+   86 P LUGGAGE ROOM ANT+   87 LUGGAGE ROOM ANT-   97 LUGGAGE ROOM ANT-   97 LUGGAGE ROOM ANT-	91 Y 92 BR/R 93 GR/W 96 GR/W 97 LR	100 G   PASSENGER DOOR PEOUEST SW   100 G   PASSENGER DOOR PEOUEST SW   102 G   PASSENGER DOOR PEOUEST SW   103 G   PASSENGER DOOR PEOUEST SW   104 Y/R   CVT SHIFT SELECTOR PEOWER SUPPLY   106 B/O   STOP LAMP SW 2   106 Y/B   BLOWER FAN MOTOR RELAY CONT   106 W/B   BLOWER FAN MOTOR RELAY CONT   100 G   PASSENGER PAN MOTOR PASSENGER PASSENGER PAN MOTOR PASSENGER PASSENGE	Y (GN) Connector Type  I Sample Coor of No. Wire	
Corrector No. M70 Corrector No. BCM (BODY CONTROL MODULE) Corrector Type FEA09FW-FHA6-SA	<u>.</u>	Now   Nor   Signal Name [Specification]   Now   Nor   Nore	1	10   10   10   10   10   10   10   10
NITH INTELLIGENT KEY    17   R/G   OPTICAL SENSOR POWER SUPPLY     18   V   SENSOR GWD     21   PIL   NATS ANTENNA AMP.     23   R/Y   SECURITY INDICATOR LAMP     24   LG   NATS ANTENNA AMP.     25   LG   NATS ANTENNA AMP.     26   LG   NATS ANTENNA AMP.     27   O   LG   CALCARATOR     28   LG   LG   CALCARATOR     29   LG   CALCARATOR     20   LG   CALCARATOR     20   LG   CALCARATOR     21   CALCARATOR     22   LG   CALCARATOR     23   LG   CALCARATOR     24   CALCARATOR     25   CALCARATOR     26   CALCARATOR     27   CALCARATOR     27   CALCARATOR     28   CALCARATOR     28   CALCARATOR     29   CALCARATOR     20   CALCARATOR     20   CALCARATOR     20   CALCARATOR     20   CALCARATOR     20   CALCARATOR     21   CALCARATOR     22   CALCARATOR     23   CALCARATOR     24   CALCARATOR     25   CALCARATOR     26   CALCARATOR     27   CALCARATOR     27   CALCARATOR     28   CALCARATOR     38   CALCARATOR     3	G/W L/W G/B DR Y/L Y/L	Second	Connector Type   FEAU9FB-FHA6-SA   Connector Type   FEAU9FB-FHA6-SA   Connector Type   FEAU9FB-FHA6-SA   Connector Type   C	1.05   REAR!   1.05
DECM (BODY CONTROL MODULE)   WITH INTELLIGENT KEY)   TO	H.S. 11234	Farminal Color Of   Signal Name   Specification   No. Wire   No. Wire   2 B	Cornector No. M68 Cornector Anne BOM (BODY CONTROL MODULE) Cornector Type 11440FB-NH  Cornector Type 11440FB-NH  (A)  (A)  (B)  (C)  (C)  (C)  (C)  (C)  (C)  (C	Terminal Color Of   Signal Name [Specification]   No.   Wire   Signal Name [Specification]   No.   Wire   Signal Name [Specification]   Signal Name   Sign

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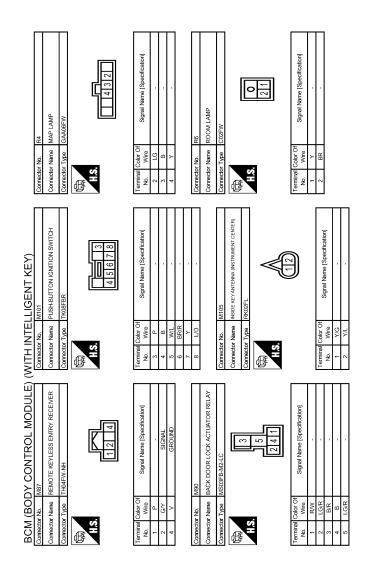
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### WITH INTELLIGENT KEY: Fail-safe

#### FAIL-SAFE CONTROL BY DTC

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

#### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
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
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent  • Starter relay control signal  • Starter relay status signal (CAN)
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled  Ignition switch ON signal (CAN: Transmitted from BCM): ON  Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled  Ignition switch ON signal (CAN: Transmitted from BCM): OFF  Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled  • Starter control relay signal (CAN: Transmitted from BCM): OFF  • Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled  • Starter control relay signal (CAN: Transmitted from BCM): ON  • Starter control relay signal (CAN: Transmitted from IPDM E/R): ON
B26F7: BCM	Inhibit engine cranking by Intelligent Key sys- tem	When room antenna and luggage room antenna functions normally

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

# FAIL-SAFE CONTROL OF COMBINATION SWITCH READING FUNCTION CAUSED BY LOW POWER SUPPLY VOLTAGE

If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

#### NOTE:

When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

### WITH INTELLIGENT KEY: DTC Inspection Priority Chart

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 CIRCUIT     U1010: CONTROL UNIT (CAN)

CONTROL UNIT (CAN)

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#### < ECU DIAGNOSIS INFORMATION >

Priority	DTC
3	<ul> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> <li>B2195: ANTI-SCANNING</li> <li>B2198: NATS ANTENNA AMP</li> </ul>
4	<ul> <li>B2555: STOP LAMP</li> <li>B2556: PUSH-BTN IGN SW</li> <li>B2557: VEHICLE SPEED</li> <li>B2601: SHIFT POSITION</li> <li>B2602: SHIFT POSITION</li> <li>B2603: SHIFT POSI STATUS</li> <li>B2604: PNP/CLUTCH SW</li> <li>B2605: PNP/CLUTCH SW</li> <li>B2605: STARTER RELAY</li> <li>B2606: ENG STATE SIG LOST</li> <li>B2614: BCM</li> <li>B2615: BCM</li> <li>B2616: BCM</li> <li>B2618: BCM</li> <li>B2618: BCM</li> <li>B2617: IGN RELAY OFF</li> <li>B2672: IGN RELAY ON</li> <li>B2673: START CONT RLY ON</li> <li>B2674: START CONT RLY OFF</li> <li>B2676: BCM</li> <li>B2676: BCM</li> <li>B2677: VHCL SPEED SIG ERR</li> <li>U0415: VEHICLE SPEED</li> </ul>
5	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1705: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RL</li> <li>C1716: [PRESSDATA ERR] FL</li> <li>C1717: [PRESSDATA ERR] FR</li> <li>C1718: [PRESSDATA ERR] RR</li> <li>C1719: [PRESSDATA ERR] RL</li> </ul>
6	B2621: INSIDE ANTENNA     B2622: INSIDE ANTENNA
7	<ul> <li>B2626: OUTSIDE ANTENNA</li> <li>B2627: OUTSIDE ANTENNA</li> <li>B2628: OUTSIDE ANTENNA</li> </ul>

## WITH INTELLIGENT KEY: DTC Index

INFOID:0000000010262822

#### NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <a href="BCS-20">BCS-20</a>, "COM-MON ITEM: CONSULT 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-40	-
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-41	-
U0415: VEHICLE SPEED	_	_	×	_	BCS-42	-
B2192: ID DISCORD BCM-ECM	×	_	_	_	<u>SEC-38</u>	-
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-40	-
B2195: ANTI-SCANNING	×	_	_	_	SEC-41	-
B2198: NATS ANTENNA AMP	×	_	_	_	SEC-42	-
B2555: STOP LAMP	_	×	×	_	SEC-46	-
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-48	-
B2557: VEHICLE SPEED		×	×		SEC-50	-
B2562: LOW VOLTAGE	_	×	_	_	BCS-43	-
B2601: SHIFT POSITION	_	×	×	_	SEC-51	-
B2602: SHIFT POSITION		×	×		SEC-54	-
B2603: SHIFT POSI STATUS		×	×		SEC-57	-
B2604: PNP/CLUTCH SW		×	×		SEC-62	-
B2605: PNP/CLUTCH SW	_	×	×	_	SEC-65	-
B2608: STARTER RELAY	×	×	×		SEC-67	-
B260F: ENG STATE SIG LOST	×	×	×	<del>_</del>	SEC-69	-
B2614: BCM	_	×	×	_	PCS-77	-
B2615: BCM	_	×	×	_	PCS-80	-
B2616: BCM	_	×	×	_	PCS-83	-
B2618: BCM	_	×	×	_	PCS-86	-
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-87	-
B2621: INSIDE ANTENNA	_	×		_	DLK-44	_ =
B2622: INSIDE ANTENNA	_	×	_	_	DLK-46	-
B2626: OUTSIDE ANTENNA	_	×	_	_	DLK-50	-
B2627: OUTSIDE ANTENNA	_	×	_	_	DLK-48	-
B2628: OUTSIDE ANTENNA	_	×	_		DLK-52	-
B26F1: IGN RELAY OFF	×	×	×	_	PCS-89	-
B26F2: IGN RELAY ON	×	×	×	_	PCS-91	-
B26F3: START CONT RLY ON	×	×	×		SEC-70	-
B26F4: START CONT RLY OFF	×	×	×		SEC-71	-
B26F6: BCM		×	×		PCS-93	-
B26F7: BCM	×	×	×		SEC-73	-
B26F8: BCM		×	×	<u> </u>	SEC-74	_
B26FC: KEY REGISTRATION		×	×		SEC-75	-

### < 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
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	WT-26
C1706: LOW PRESSURE RR	_	_	_	×	<u> </u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT-28
C1710: [NO DATA] RR	_	_	_	×	<u>W1-20</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_		×	WT-31
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-33</u>

## WITHOUT INTELLIGENT KEY

### WITHOUT INTELLIGENT KEY: Reference Value

INFOID:0000000010262823

### VALUES ON THE DIAGNOSIS TOOL

### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition	Value/Status
ION ON OW	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
RET ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL TINI OCK 8/W	Door lock/unlock switch does not operate	Off
CDL UNLOCK 3W	Press door lock/unlock switch to the unlock side  Driver's door closed	On
DOOR SW-DR	Driver's door closed	
DOOK SW-DK	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
BACK DOOK SW	Back door opened	On
LOCK STATUS	NOTE: The item is indicated, but not monitored.	Off

Monitor Item	Condition	Value/Status
ACC ON SW	Ignition switch OFF	Off
ACC OIN SVV	Ignition switch ACC or ON	On
VEVI ESS LOCK	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
KEVI EGG LINII OOK	"UNLOCK" button of key fob is not pressed	Off
KEYLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
SHOCK SENSOR	NOTE: The item is indicated, but not monitored.	NORMAL
VEV 0V4 1 V 0V4	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
VEV 0V/ 1111 0V/	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
VEHICLE SPEED	While driving	Equivalent to speed- ometer reading
DEAD DEE 011/	Rear window defogger switch OFF	On Off On Off On Off On NORMAL Off On Off On Equivalent to speed-
REAR DEF SW	Rear window defogger switch ON	
DEVEDOS ON OTO	NOTE:	Off On Off On Off On NORMAL Off On Off On Off On Equivalent to speed- ometer reading Off On Off Off
REVERSE SW CAN	The item is indicated, but not used.	
TAIL   AND ONE	Lighting switch OFF	On Off On NORMAL Off On Off On Off On Equivalent to speed- ometer reading Off On Off Off
TAIL LAMP SW	Lighting switch 1ST	
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	The seat belt (driver side) is fastened. [Seat belt switch (driver side) OFF]	On Off Off Off On
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) ON]	
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
KYLS TRNK/HAT	NOTE: The item is indicated, but not monitored.	Off
KEVI EGG BANIG	PANIC button of key fob is not pressed	Off On Off On Off On Off On Off On NORMAL Off On Off
KEYLESS PANIC	PANIC button of key fob is pressed	
U DEAM OV	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAND ON A	Lighting switch OFF	Off On Off On Off On Off On Off On NORMAL Off On Off On Off On Equivalent to speed- ometer reading Off On Off
HEAD LAMP SW 1	Lighting switch 2ND	
UEAD LANCE 2:::-	Lighting switch OFF	Off On Off On Off On Off On Off On NORMAL Off On Off On Off On Equivalent to speed- ometer reading Off On Off
HEAD LAMP SW 2	Lighting switch 2ND	
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
	Turn signal switch OFF	
TURN SIGNAL L	Turn signal switch LH	Off On Off On Off On NORMAL Off On Off On Off On Equivalent to speed- ometer reading Off On Off Off

Monitor Item	Condition	Value/Status
PKB SW	Parking brake switch is OFF	Off
ND 3W	Parking brake switch is ON	On
ENGINE RUN	Engine stopped	Off
INOINE RON	Engine running	On
OPTI SEN (DTCT)	NOTE: The item is indicated, but not monitored.	Close to 5 V
OPTI SEN (FILT)	NOTE: The item is indicated, but not monitored.	Close to 5 V
IG SEN COND	NOTE: The item is indicated, but not monitored.	OFF
GN SW CAN	Ignition switch OFF or ACC	Off
GIN SW CAIN	Ignition switch ON	On
R WIPER HI	Front wiper switch OFF	Off
IX VVIII EIX I II	Front wiper switch HI	On
R WIPER LOW	Front wiper switch OFF	Off
-K WIFER LOW	Front wiper switch LO	On
R WIPER INT	Front wiper switch OFF	Off
TR WIFER IN	Front wiper switch INT	On
	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
D WIDED STOD	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On Off On 1 - 7 Off On Off On Off On Off On Off On
DD WIDED ON	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
DD WIDED INT	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
D WIDED OTOD	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RAIN SENSOR	NOTE: The item is indicated, but not monitored.	Off
IAZADD CW	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
TANLONI CIO	Blower control dial OFF	Off
FAN ON SIG	Other than blower control dial OFF	On
VID COND CVV	A/C switch OFF	Off
AIR COND SW	A/C switch ON	On
	Ignition switch ON	Off
THERMO AMP	Evaporator is extremely low temperature	On
	Other than A/C mode defroster ON position	Off
FR DEF SW	A/C mode defroster ON position	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
TRNK OPNR SW	NOTE: The item is indicated, but not monitored.	Off	Α
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off	Е
HOOD SW	Close the hood	Off	-
HOOD SW	Open the hood	On	
TRANCRONRER	Other than the ignition switch is ON by key registered to BCM.	Off	
TRANSPONDER	The ignition switch is ON by key registered to BCM.	On	=
INTELLI KEY	NOTE: The item is indicated, but not used.	Off	D
AUTO RELOCK	NOTE: The item is indicated, but not monitored.	Off	Е
OIL PRESS SW	Ignition switch OFF or ACC     Engine running	Off	-
	Ignition switch ON	On	F
BRAKE SW	Brake pedal is not depressed	Off	=
DRANE SW	Brake pedal is depressed	On	

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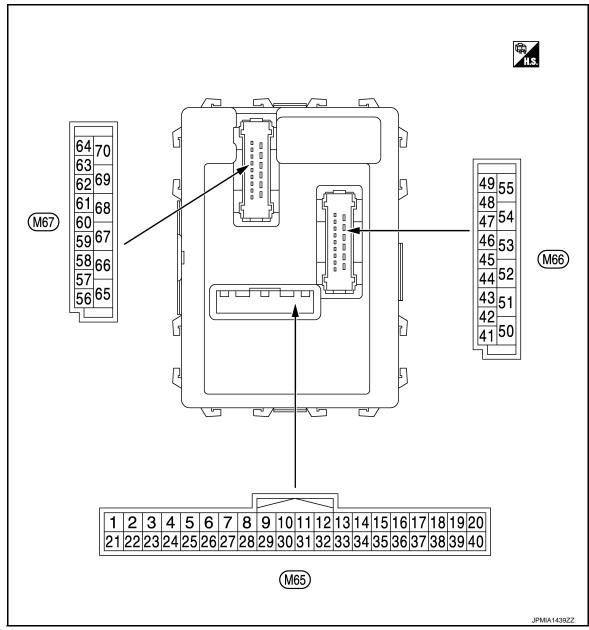
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### TERMINAL LAYOUT



#### NOTE:

M65, M66: WhiteM67: Black

PHYSICAL VALUES

## < ECU DIAGNOSIS INFORMATION >

	nal No.	Description	Description			Value	1	
+ (vvire	color)	Signal name	Input/ Output	Condition		(Approx.)		
					All switch OFF	0 V	-	
					Turn signal switch RH		-	
					Lighting switch HI	(V) 15 10		
2 (BR/W)	Ground	Combination switch	Input	Combination switch (Wiper intermit- tent dial 4)	switch	Lighting switch 1ST	10 5 0 ++10ms PKIB4958J 1.0 V	
		INI OT 3			Lighting switch 2ND	(V) 15 10 5 0 → +10 ms JPMIA0342JP 2.0 V		
					All switch OFF	0 V	=	
					Turn signal switch LH		•	
		Ground Combination switch INPUT 4 Input Combination switch (Wiper interm tent dial 4)		Combination	Lighting switch PASS	(V) 15		
3 (GR)	Ground		switch (Wiper intermit-	Lighting switch 2ND	10 5 0 ++10ms PKIB4958J 1.0 V	,		
					All switch OFF	0 V	-	
					Front wiper switch LO		-	
				Combination	Front wiper switch MIST	(V) 15		
4 (L/Y)	Ground	Ground Combination switch INPUT 3	switch (Wiper intermit- tent dial 4)	Front wiper switch INT	10 5 0 ++10ms PKIB4958J 1.0 V	IN		

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	nal No.	Description			0 1111	Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	(V)
					Rear washer switch ON (Wiper intermittent dial 4)	10 5 0
5 (G)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	→ +10ms PKIB4958J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 → +10ms
						PKIB4956J 0.8 V
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V)
					Rear wiper switch INT (Wiper intermittent dial 4)	10 5 0
					Wiper intermittent dial 3 (All switch OFF)	++10ms PKIB4958J
6 (L/R)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2	(V) 15 0 ++10ms PKIB4952J 1.9 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 ++10ms PKIB4956J 0.8 V

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
7 (W/R)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0 V
					UNLOCK position	0 V
8		Door key cylinder		Door key cylin-	NEUTRAL position	12 V
(W/B)	Ground	switch LOCK	Input	der switch	LOCK position	0 V
9	Crownsi	Ston Jama switch	lnn:-t	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Stop lamp switch	Input	switch	ON (Brake pedal is depressed)	Battery voltage
10	Ground	Rear window defog-	Input	Rear window	OFF (Not pressed)	12 V
(W/L)	Ground	ger switch	прис	defogger switch	ON (Pressed)	0 V
11	Ground	Ignition switch ACC	Input	Ignition switch O	FF	0 V
(L/Y)		·9·····		Ignition switch A	CC or ON	Battery voltage
12 (SB)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) 15 10 5 0 ***-10ms PKIB4960J 7.0 - 8.0 V
					ON (When passenger door opened)	0 V
13 (GR/L)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closed)	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0 V
					ON (When rear RH door opened)	0 V
18	Ground	Receiver ground	Input	Ignition switch O	M	0 V

	nal No.	Description				W.L.
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
					Insert mechanical key into ignition key cylinder	0 V
					Remove mechanical key from ignition key cylinder (Any door opened)	5 V
19 (BR)	Ground	Remote keyless en- try receiver power supply	Input	Ignition switch OFF	Remove mechanical key from ignition key cylinder (Any door closed)	(V) 6 4 2 0 •••0.2 s
		Remote keyless entry receiver communication  Remote keyless entry receiver communication  Input OFF		Insert mechanical key into ignition key cylinder	0 V	
20 (G/Y)	Ground			Ignition switch OFF	Waiting	(V) 6 4 2 0 ••1,0ms
					Signal receiving	(V) 6 4 2 0 ••1.0ms
21	Ground	NATS antenna amp.	Input/	Just after insertin	g ignition key in key cylinder	Pointer of tester should move
(P/L)	Oround	TV/TO antenna amp.	Output	Other than above	е	0 V
					ON	0 V
23 (R/Y)	Ground	Security indicator	Input	Security indicator	Blinking (Ignition switch OFF)	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	12 V
			len: 4/	Just after insertin	g ignition key in key cylinder	Pointer of tester should move
25 (LG)	Ground	NATS antenna amp.	Input/ Output	Other than above		0 V
26	_			Ignition switch O		0 V
(GR)	Ground	Thermo control amp.	Input		tremely low temperature	12 V

	inal No. e color)	Description			O a malitia m	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	$\Box$
27 (Y/G)	Ground	A/C switch	Input	A/C switch	OFF	(V) 15 10 5 0 10 ms 10 ms 1.0 - 1.5 V	B C
					ON	0 V	
28 (G/W)	Ground	Blower fan switch	Input	Fan switch	Blower fan switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J	E F
					Blower fan switch ON	7.0 - 8.0 V 0 V	
29		11 1 9.1	1	11	OFF	Battery voltage	Н
(L/W)	Ground	Hazard switch	Input	Hazard switch	ON	0 V	
					A/C mode defroster ON position	0 V	I
31 (G/Y)	Ground	Front defroster switch	Input	Ignition switch ON	Other than A/C mode de- froster ON position	(V) <sub>15</sub> 10 5 0	J K
						JPMIA0589GB 8.0 - 9.0 V	INII
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0	M
32 (LG)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Rear wiper switch ON (Wiper intermittent dial 4)	7.0 - 8.0 V	N O
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 6  • Wiper intermittent dial 7	13 10 10 10 10 10 10 10 10 10 10 10 10 10	Р

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
33 (Y/L)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) (V)
					Rear wiper switch INT (Wiper intermittent dial 4)	15
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	0 ++10ms PKIB4958J 1.2 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
34 (W)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
					Lighting switch HI (Wiper intermittent dial 4) Rear washer switch ON	(V) 15 10 5
					(Wiper intermittent dial 4)  Any of the condition below with all switch OFF  Wiper intermittent dial 1  Wiper intermittent dial 2  Wiper intermittent dial 3	++10ms PKIB4958J
35	Ground	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 +-10ms PKIB4960J 7.0 - 8.0 V
(R/L)	Ground	OUTPUT 2	Output	(Wiper intermit- tent dial 4)	Lighting switch 2ND	4.0
				terit ulai 4)	Lighting switch PASS	(V) 15 10 5
					Front wiper switch INT	
				Front wiper switch HI	PKIB4958J	

(Wire color)		Description			-	Value
+ (VVire	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)
20				Combination	All switch OFF	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 - 8.0 V
36 (L/O)	Ground	Combination switch OUTPUT 1	Output	switch (Wiper intermit-	Turn signal switch RH	7.0 0.0 7
				tent dial 4)	Turn signal switch LH	(V) 15
					Front wiper switch LO (Front wiper switch MIST)	10
		Front washer switch ON	++10ms PKIB4958J			
37				Insert mechanical key into ignition key cylinder		Battery voltage
(R/W)	Ground	Key switch	Input	Remove mechanical key from ignition key cylinder		0 V
38	Ground	Ignition switch ON	Input	Ignition switch OFF or ACC		0 V
(O)	0.00	- ignilion on ion	-	Ignition switch O	N	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_
43 (W)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					ON (When back door	0 V
					opened)  Rear wiper stop position	12 V
44 (LG)	Ground	Rear wiper stop position	Input	Ignition switch ON	Any position other than	
(LG)		SidUII		OIN	rear wiper stop position	0 V
45 (GR)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 10 ms
						1.0 - 1.5 V
					LOCK position	0 V

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
46 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V
					UNLOCK position	0 V
47 (BR/Y)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V
					ON (When driver door opened)	0 V
48 (W/G)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closed)	(V) 15 10 5 0 ** 10ms PKIB4960J 7.0 - 8.0 V
					ON (When rear LH door opened)	0 V
50	Ground	A/C indicator	Output	A/C indicator	OFF	12 V
(SB)	Ground	A C IIIUICALUI	Output	A/C indicator	ON	0 V
54	Ground	Rear wiper	Output	Ignition switch	Rear wiper switch OFF	0 V
(LG)	Cround	Real wiper		ON	Rear wiper switch ON	12 V
					np battery saver is activated. room lamp power supply)	0 V
56 (L)	Ground	Interior room lamp power supply	Output	vated.	rior room lamp power sup-	12 V
57 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	12 V
(L/B)	Giodila	LOCK	Odiput	Diiver door	Other than UNLOCK (Actuator is not activated)	0 V

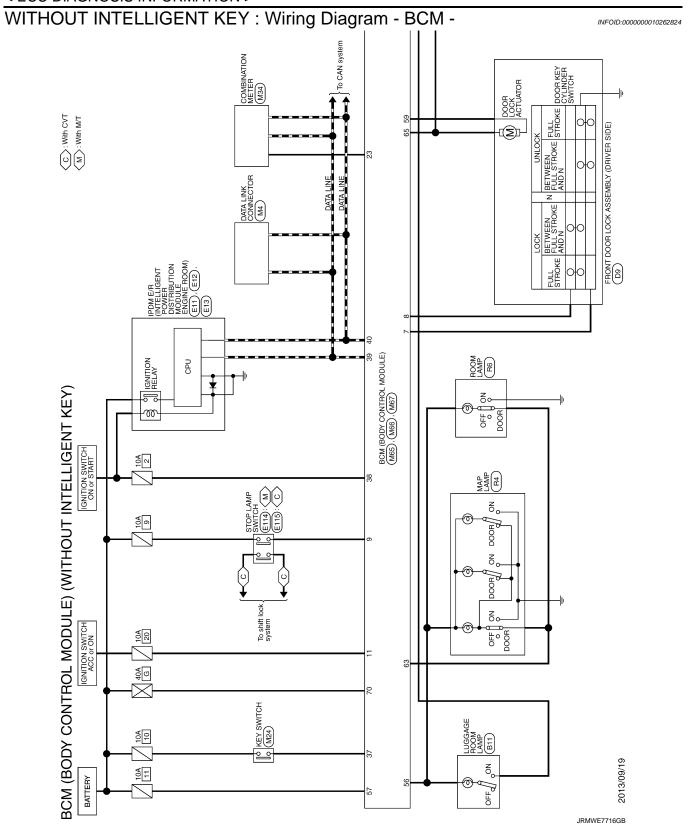
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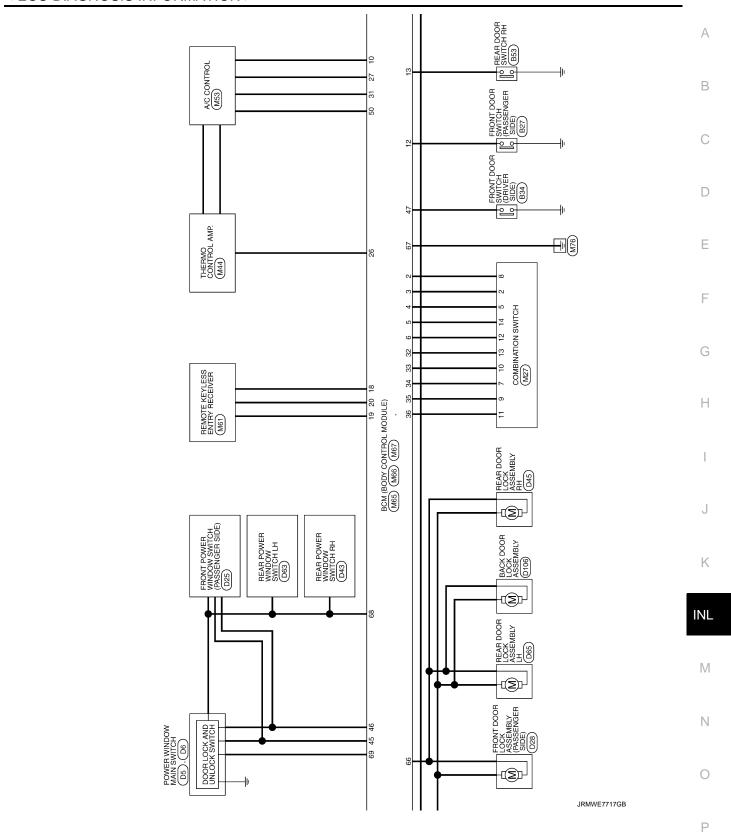
Terminal No. Description (Wire color)		Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
60 (W/B)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 18 PKIC6370E
					Turn signal switch OFF	0 V
61 (W/L)	Ground	und Turn signal RH Output Ignition switch ON		Turn signal switch RH	(V) 15 10 5 0 1s	
63		Interior room lamp		Interior room	OFF	6.0 V 12 V
(BR)	Ground	control signal	Output	lamp	ON	0 V
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	12 V
(V)	Giodila	All doors Lock	Output	All doors	Other than LOCK (Actuator is not activated)	0 V
66	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
(G)	Giodila	rear door UNLOCK	Output	and rear door	Other than UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V
68 (L)	Ground	P/W power supply (IGN)	Output	Ignition switch ON		12 V
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage

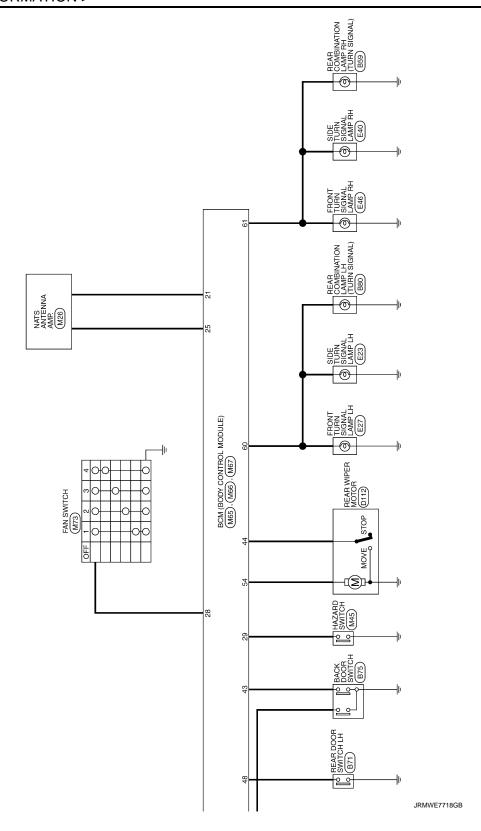
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Cornector No.   B80   Cornector Name   REAR COMBINATION LAMP LH	В
Cornector Name   Cornector Name   Cornector Name   Cornector Name   No. Wire   No. Wir	Е
Signal Name [Specification]	F
rall Color Of ra	G
	Н
NYELLIGENT KEY)  By FRONT DOOR SWITCH (ORIVER SIDE)  Signal Name [Specification]	I
Corrector Name REAR DOOR SWITCH (DRIVER Corrector Name REAR DOOR SWITCH (DRIVER LEAST CORRECTOR Name (Specification Name) (Specificatio	J
Corrector Name FRONT DOC Corrector Name FRONT DOC Corrector Type THO4FWAM No. 163 Corrector Type THO4FWAM No. 165 Corrector Type THO4FWAM No. 165 Corrector Name REAR DOOF Corrector Name REAR DOOF Corrector Name REAR COM	K
Cestion   Cestio	INL
BCM (BODY CONTROL MODULE)  Corrector Name   14020-AGE ROOM LAMP   Corrector Name   14020-AGE ROOM ROOM SURTCH RAMP   14020-AGE ROOM ROOM ROOM SURTCH RAMP   14020-AGE ROOM	M
BCM (BODY Corrector Name LUGGAC Corrector Name LUGGAC Corrector Name Recynology Wire Royn Corrector Name Recynology Name Recyn	Ν
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JRMWE7826GB

**INL-97** 2014 CUBE Revision: 2013 October

Connector No. Doss Connector Name REAR POWER WINDOW SWITCH LH Connector Type NSGREW-CS.  H.S.	Terminal Color Of No. Wire   Signal Name   Specification   No. Wire   Signal Name   Specification	ector Ne	Terminal Color Of   Signal Name [Specification]   No.   Wire     Vir.     Vir.
Corrector No. D43 Corrector Name REAR POWER WINDOW SWITCH RH Corrector Type NS06FW-CS  H.S.	Terminal Color Of   Signal Name   Specification  No. Write   Viral Name   Specification    1	sctor Nk	Terminal Color Of Signal Name (Specification) No. Wine 5 W
(WITHOUT INTELLIGENT KEY) Corrector No. D25 Corrector Name Insure Investment	Terminal Codor Of   Signal Name [Specification]   No.   Wire   Signal Name   Specification     1   GR     2   BR	1   SB	Terminal Cabr Off Signal Name (Specification) No. Wine Signal Name (Specification) Signal Name (Specification)
BCM (BODY CONTROL MODULE)  Corrector No. D6  Corrector No. D7  Cor	Terminal Color Of   Signal Name   Specification    No.   Wire	Corrector No. D9 Corrector Name Frowt Dook LOCK ASSENELY (DRIVER SDE) Corrector Type ELGFGY-RS  H.S.  (123456)	Terminal Color Of   Signal Name   Specification]   No.   Wire

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AMP LH  IP RH  IP RH	В
FROM TURN SIGNAL LAMP LH RS00FB Signal Name ISpecification Signal Name ISpecification Signal Name ISpecification	С
Corrector No. E27 Corrector Name FRO Corrector Type R900  Terminal Color Of No. Wire 1 2 BW Corrector Name SIDE Corrector Name	D
lool lool	Е
E23 Signal Name (Specification) Signal Name (Specification)	F
Stor No.  Stor Name Stor Type Stor Type Stor Type Stor No.  Stor No.  Stor No.  Stor No.  Stor Type Stor No.  Stor No.  Stor No.  Stor No.  Stor Type Stor T	G
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NTELLIGENT KEY)  For an annual street of the	I
NOOFB-LC  NISOBFBR-CS  NISOBFBR	J
Corrector Name  Corrector Name	К
MODULE)  Well Y  Walter Y  Sifecation I	INL
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BCM (BOD) Corrector Name Pt Corrector Name Pt No. Wive 2 3 V Name Corrector Name Pt Corrector Name Pt No. Wive 2 3 V Name Pt No. Wive 2 4 LG A LG	N
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Revision: 2013 October INL-99 2014 CUBE

Corrector No. M27  Corrector Name COMBINATION SWITCH  Corrector Type THIGEN-NAH  LS. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Terminal Color Of   Signat Name [Specification]     No. Wire   WASHER (RRS)     2	Corrector No.   M34	DEV.1
Corrector No. M24 Corrector Name NEY SWITCH Corrector Type TY06MGY  L.S.	Terminal Color Of Signal Name (Specification)  No. Wire  No. Wire  2 LG/R  Corrector No. M26  Corrector Name NATS ANTENNA AMP.  Corrector Name NATS ANTENNA AMP.  Corrector Type TH404FWAN	Terminal Color Of   Signal Name (Specification)   No. Wive   Wat   No. Wive   BAT   Color Of   Signal Name (Specification)   No. Wive   Signal Name (Specification)   No. Color   Co	
WITHOUT INTELLIGENT KEY) Corrector Name STOP LAMP SWITCH Corrector Type MO4PW.LC  ALS  ALS  ALS  ALS  ALS  ALS  ALS  A	Teminal Color Of   Signal Name [Specification]   No.   Wire   V	Terminal Color Of Nurse Wree Signal Name (Specification)   4	
BCM (BODY CONTROL MODULE) Corrector Name FRONT TURN SIGNAL LAMP RH Corrector Name FRONT TURN SIGNAL LAMP RH Corrector Type RSIZE  A.S.  A.	Terminal Color Of   Signal Name (Specification)   1	Terminal Color Of Nive Signal Name (Specificator)  1 V	

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## < ECU DIAGNOSIS INFORMATION >

25 LG NATS ANTENNA AMP. 26 GRW THERNO CONTROL AMP. 27 AC SWALL 28 GWW BLOWER FANSW 29 LWW FR DERNOSTRE SW 31 GNY FR DERNOSTRE SW 31 GNY FR DERNOSTRE SW 32 LG COMBIS SW OUTPUT 4 33 W COMBIS SW OUTPUT 1 34 W COMBIS SW OUTPUT 1 35 RW COMBIS SW OUTPUT 1 36 LUG 37 RWW COMBIS SW OUTPUT 1 38 LUGHT TOOR SWALL 39 LUG	
Cornector No.   M61	
Corrector Name   HAZARD SWITCH	
Corrector Name   Signal   Name   Specification	

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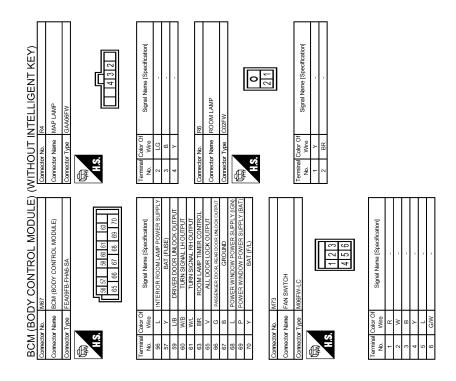
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### WITHOUT INTELLIGENT KEY: Fail-safe

#### FAIL-SAFE CONTROL BY DTC

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

#### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF

#### REAR WIPER MOTOR PROTECTION

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

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

#### Condition of cancellation

- 1. Pass more than 1 minute after the rear wiper stop.
- Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

### WITHOUT INTELLIGENT KEY: DTC Inspection Priority Chart

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

Priority	DTC	
1	U1000: CAN COMM U1010: CONTROL UNIT (CAN)	
2	<ul> <li>B2190: NATS ANTENNA AMP</li> <li>B2191: DIFFERENCE OF KEY</li> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> <li>B2195: ANTI SCANNING</li> </ul>	
3	C1735: IGN CIRCUIT OPEN	
4	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1705: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] 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>C1729: VHCL SPEED SIG ERR</li> </ul>	

### WITHOUT INTELLIGENT KEY: DTC Index

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#### NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
   → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
   remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
   OFF → ON after returning to the normal condition if the malfunction is detected again.

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CONSULT display	Fail-safe	Tire pressure monitor warn- ing lamp ON	Reference
U1000: CAN COMM	_	_	BCS-120
U1010: CONTROL UNIT (CAN)	_	_	BCS-121
B2190: NATS ANTENNA AMP	×	_	SEC-197
B2191: DIFFERENCE OF KEY	×	_	SEC-200
B2192: ID DISCORD BCM-ECM	×	_	SEC-201
B2193: CHAIN OF BCM-ECM	×	_	SEC-202
B2195: ANTI SCANNING	×	_	SEC-203
C1704: LOW PRESSURE FL	_	×	<u>WT-26</u>
C1705: LOW PRESSURE FR	_	×	
C1706: LOW PRESSURE RR	_	×	
C1707: LOW PRESSURE RL	_	×	
C1708: [NO DATA] FL	_	×	
C1709: [NO DATA] FR	_	×	WT 00
C1710: [NO DATA] RR	_	×	<u>WT-28</u>
C1711: [NO DATA] RL	_	×	
C1716: [PRESS DATA ERR] FL	_	×	
C1717: [PRESS DATA ERR] FR	_	×	WT 24
C1718: [PRESS DATA ERR] RR	_	×	<u>WT-31</u>
C1719: [PRESS DATA ERR] RL	_	×	
C1729: VHCL SPEED SIG ERR	_	×	<u>WT-33</u>
C1735: IGN CIRCUIT OPEN	_	_	BCS-122

### INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

## INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

#### NOTE:

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

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON.  Map lamp Room lamp  Luggage room lamp	Harness between BCM and each interior room lamp     BCM	Interior room lamp power supply circuit Refer to INL-24.
Interior room lamp does not turn ON even though the door is open.	Harness between BCM and each door switch     Harness between BCM and each interior room lamp     BCM	Door switch circuit Refer to DLK-55.
<ul> <li>(It turns ON when turning the interior room lamp ON.)</li> <li>Interior room lamp does not turn OFF even though the door is closed.</li> </ul>		Interior room lamp control circuit Refer to INL-26.
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to INL-15.
Push-button ignition switch illumination does not illuminate.	Harness between BCM and push- button ignition switch     Harness between push-button igni- tion switch and ground     Push-button ignition switch     BCM	Push-button ignition switch illumination circuit Refer to INL-28.
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to INL-16.

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## **PRECAUTION**

#### **PRECAUTIONS**

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

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

#### WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

## Precautions for Removing of Battery Terminal

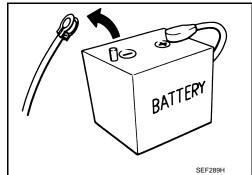
 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

#### NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
 NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



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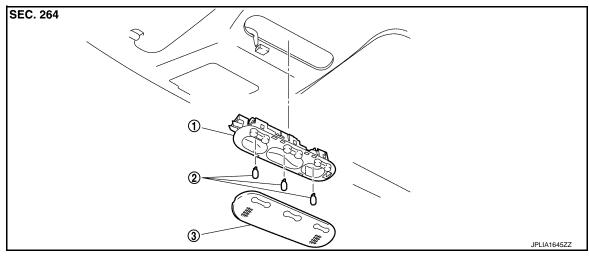
After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

## REMOVAL AND INSTALLATION

#### MAP LAMP

**Exploded View** 



Map lamp bulb housing

2. Bulb 3. Lens

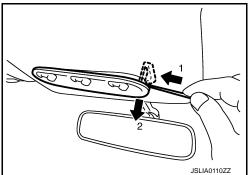
#### Removal and Installation

#### **CAUTION:**

Disconnect the battery negative terminal or the fuse.

#### REMOVAL

1. Insert any appropriate tool into the gap between the map lamp bulb housing to the headlining. And press the pawl and then pull the map lamp.



Disconnect the connector.

#### **INSTALLATION**

Install in the reverse order of removal.

## Replacement

**CAUTION:** 

- Disconnect the battery negative terminal or 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

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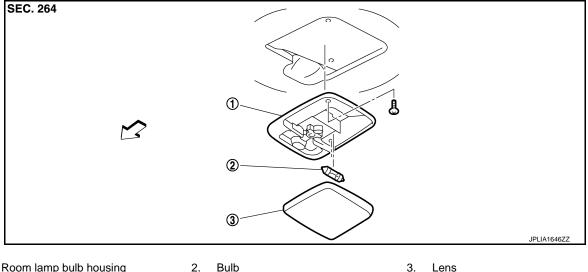
### **MAP LAMP**

### < REMOVAL AND INSTALLATION >

- 1. Remove the map lamp.
- 2. Remove the lens.
- 3. Remove the bulb.

### **ROOM LAMP**

### **Exploded View**



Room lamp bulb housing

2.

Lens

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#### Removal and Installation

#### **CAUTION:**

Disconnect the battery negative terminal or the fuse.

#### REMOVAL

- Insert any appropriate tool into the gap between the lens. And then remove the lens.
- Remove room lamp housing mounting screw. And then remove the room lamp bulb housing.
- Disconnect the connector.

#### **INSTALLATION**

Install in the reverse order of removal.

## Replacement

**CAUTION:** 

- Disconnect the battery negative terminal or 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.

#### ROOM LAMP BULB

- Insert any appropriate tool into the gap between the lens. And then remove the lens.
- 2. Remove the bulb.

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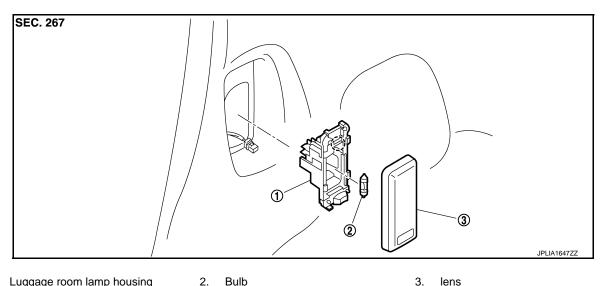
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### LUGGAGE ROOM LAMP

**Exploded View** INFOID:0000000009950961



- Luggage room lamp housing
- :Pawl
- Removal and Installation

INFOID:0000000009950962

#### **CAUTION:**

Disconnect the battery negative terminal or the fuse.

#### **REMOVAL**

- 1. Insert any appropriate tool into the gap between the lens. Remove the lens.
- 2. Push the pawl and then remove the luggage room lamp.
- Disconnect the connector.

#### INSTALLATION

Install in the reverse order of removal.

Replacement INFOID:0000000009950963

#### **CAUTION:**

- Disconnect the battery negative terminal or 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

- 1. Remove the luggage room lamp.
- 2. Remove the lens.
- 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)
Map lamp	W5W	5
Room lamp	_	10
Luggage room lamp	_	5
Push-button ignition switch illumination*	LED	_

<sup>\*:</sup>Only with Intelligent Key

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