

# **CONTENTS**

| BASIC INSPECTION3  |
|--|
| DIAGNOSIS AND REPAIR WORK FLOW 3 Work Flow   |
| SYSTEM DESCRIPTION6  |
| INTERIOR ROOM LAMP CONTROL SYSTEM  |
| System Diagram 6 System Description 6 Component Parts Location 9 Component Description 9   |
| INTERIOR ROOM LAMP BATTERY SAVER   |
| SYSTEM         10           System Diagram         10           System Description         10           Component Parts Location         11           Component Description         12 |
| ILLUMINATION CONTROL SYSTEM13System Diagram13System Description13Component Parts Location14Component Description14   |
| DIAGNOSIS SYSTEM (BCM)15   |
| COMMON ITEM15 COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)15   |
| INT LAMP16 INT LAMP : CONSULT Function (BCM - INT LAMP)  |
| BATTERY SAVER18 BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)18   |
| DTC/CIRCUIT DIAGNOSIS20  |

| POWER SUPPLY AND GROUND CIRCUIT   | 20              |
|---|-----------------|
| BCM : Diagnosis Procedure   |                 |
| INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT                                       |                 |
| Description  Component Function Check  Diagnosis Procedure                    | 21              |
| INTERIOR ROOM LAMP CONTROL CIRCUI   | Т               |
| Description  Component Function Check  Diagnosis Procedure                    | 23              |
| STEP LAMP CIRCUIT  Description  Component Function Check  Diagnosis Procedure | 25<br>25        |
| PUDDLE LAMP CIRCUIT  Description  Diagnosis Procedure                         | 27              |
| PUSH-BUTTON IGNITION SWITCH ILLUMI-   |                 |
| NATION CIRCUIT  Description  Component Function Check  Diagnosis Procedure    | 28<br>28        |
| INTERIOR ROOM LAMP CONTROL SYSTEM   |                 |
| Wiring Diagram - INTERIOR ROOM LAMP   | <b>30</b><br>30 |
| ILLUMINATIONWiring Diagram - ILLUMINATION                                     |                 |
| ECU DIAGNOSIS INFORMATION   | 57              |
| BCM (BODY CONTROL MODULE)   | 57              |

D

Е

F

Н

J

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| Reference Value57                            | DRIVER SIDE106  |
|--|---|
| Wiring Diagram - BCM 81                      | DRIVER SIDE: Exploded View 106  |
| Fail-safe95                                  | DRIVER SIDE : Replacement 106   |
| DTC Inspection Priority Chart96              | PASSENGER SIDE106   |
| DTC Index                                    | PASSENGER SIDE : Exploded View  |
| SYMPTOM DIAGNOSIS100                         | PASSENGER SIDE : Exploded view 106 PASSENGER SIDE : Replacement               |
| 51 WP TOW DIAGNOSIS100                       | PASSENGER SIDE . Replacement 107  |
| INTERIOR LIGHTING SYSTEM SYMPTOMS. 100       | STEP LAMP108  |
| Symptom Table100                             | Exploded View108  |
|  | Removal and Installation 108  |
| PRECAUTION101                                | Replacement 108   |
| PRECAUTIONS101                               | PERSONAL LAMP109  |
| Precaution for Supplemental Restraint System | Exploded View109  |
| (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-      | Removal and Installation  |
| SIONER"101                                   | Replacement110  |
|  |   |
| REMOVAL AND INSTALLATION102                  | PUDDLE LAMP111  |
| MARIAMR                                      | Exploded View111  |
| MAP LAMP 102                                 | LUGGAGE ROOM LAMP112  |
| Exploded View                                | LUGGAGE ROOM LAMP112  |
| Removal and Installation                     | LUGGAGE SIDE112   |
| Replacement102                               | LUGGAGE SIDE: Exploded View 112   |
| VANITY MIRROR LAMP 103                       | LUGGAGE SIDE : Removal and Installation 112                                   |
| Exploded View103                             | LUGGAGE SIDE : Replacement 112  |
| Replacement103                               |   |
| ·  | BACK DOOR SIDE112   |
| CIGARETTE LIGHTER ILLUMINATION 104           | BACK DOOR SIDE: Exploded View   |
| Exploded View104                             | BACK DOOR SIDE : Removal and installation 113 BACK DOOR SIDE : Replacement113 |
| Replacement104                               | BACK DOOK SIDE . Replacement 113  |
| GLOVE BOX LAMP 105                           | SERVICE DATA AND SPECIFICATIONS   |
| Exploded View105                             | (SDS)114  |
| Replacement105                               | ` ,   |
|  | SERVICE DATA AND SPECIFICATIONS   |
| FOOT LAMP106                                 | (SDS)114  |
|  | Bulb Specifications114  |
|  |   |

# **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

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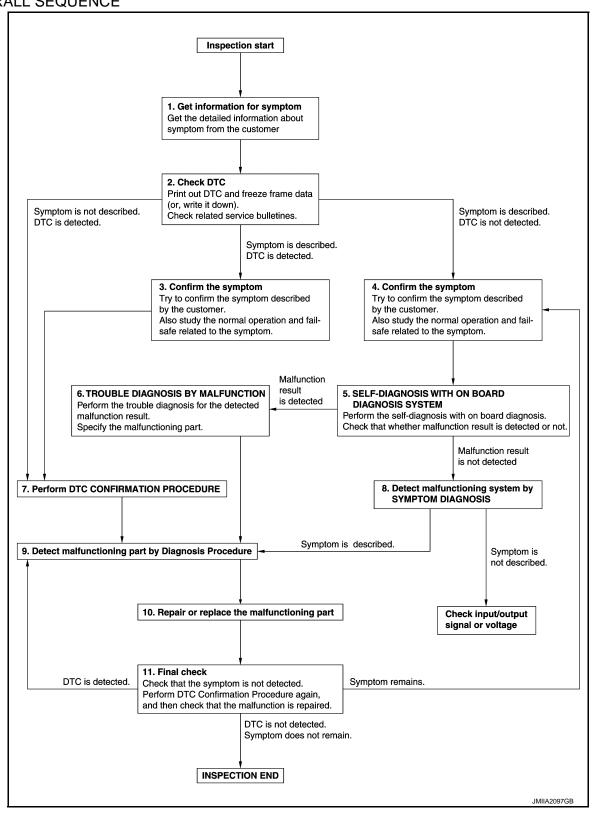
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#### **OVERALL SEQUENCE**



**DETAILED FLOW** 

#### 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 7.

## 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 7.

### 4. 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.

## 5. SELF-DIAGNOSIS WITH ON BOARD DIAGNOSIS SYSTEM

Perform the self-diagnosis with on board diagnosis. Check that whether malfunction result is detected or not. <u>Is malfunction result detected?</u>

YES >> GO TO 6.

NO >> GO TO 8.

### 6. TROUBLE DIAGNOSIS BY MALFUNCTION

Perform the trouble diagnosis for the detected malfunction result. Specify the malfunctioning part.

>> GO TO 9.

## 7. 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?

### **DIAGNOSIS AND REPAIR WORK FLOW**

#### < BASIC INSPECTION > YES >> GO TO 9. NO >> Check according to GI-42, "Intermittent Incident". Α f 8.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step В 4, and determine the trouble diagnosis order based on possible causes and symptom. Is the symptom described? YES >> GO TO 9. NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT. 9. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE D Inspect according to Diagnosis Procedure of the system. Is malfunctioning part detected? Е YES >> GO TO 10. NO >> Check according to GI-42, "Intermittent Incident". 10. 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-2. ment. Check DTC. If DTC is detected, erase it. >> GO TO 11. Н 11. 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 9. YES-2 >> Symptom remains: GO TO 4. >> Before returning the vehicle to the customer, always erase DTC. NO K

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## SYSTEM DESCRIPTION

### INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

INFOID:0000000008289399 OFF Remote keyless Personal lamp ON entry receiver Lock/unlock signal Interior room lamp power supply Door Map lamp ON Request switch (ALL) Step lamp Power window Puddle lamp main switch Puddle lamp control signal всм Key cylinder lock/unlock Power window switch switch serial link Step lamp control signal Key cylinder lock/unlock Door lock/unlock switch signal Interior room lamp control signal switch Central door lock/unlock switch signal Push-button Push-button ignition switch ignition switch illumination power supply illumination Push-button ignition switch Door switch illumination ground (ALL) To combination meter

## System Description

INFOID:0000000008289400

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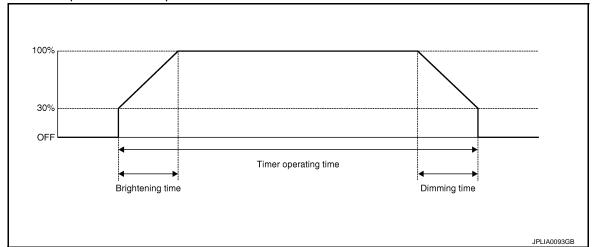
#### **OUTLINE**

- Interior room lamps\* are controlled by interior room lamp timer control function of BCM.
   \*: Map lamp, foot lamp and personal lamp (when map lamp switch is in DOOR position).
- Step lamp is controlled by step lamp control function of BCM.
- Puddle lamp is controlled by puddle lamp timer control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control
  function of BCM.
- Interior room lamps and puddle lamp are illuminated by welcome light function of Intelligent Key system. Refer to DLK-33, "WELCOME LIGHT FUNCTION: System Description".

#### INTERIOR ROOM LAMP TIMER CONTROL

#### < SYSTEM DESCRIPTION >

Interior Room Lamp Timer Basic Operation



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

Each function of interior room lamp timer can be set by CONSULT. Refer to INL-17, "INT LAMP: CONSULT Function (BCM - INT LAMP)".

Interior Room Lamp ON Operation

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

#### NOTE:

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

Interior Room Lamp OFF Operation

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

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

#### STEP LAMP CONTROL

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

#### PUDDLE LAMP TIMER CONTROL

Puddle Lamp Timer Basic Operation

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

### Puddle Lamp ON Operation

BCM activates the puddle lamp timer in any of the following conditions to turn the puddle lamp ON for a period of time.

- Anv door opens.
- Any door opens before all doors close.
- Ignition switch is turned ON → OFF.

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#### < SYSTEM DESCRIPTION >

Any door unlock signal is detected when all doors close with ignition switch OFF.

#### NOTE:

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

#### Puddle Lamp OFF Operation

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

- The puddle lamp timer operating time is expired.
- The interior room lamp OFF conditions.
- The interior room lamp timer operating time is expired.

#### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

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

Push-button Ignition Switch Illumination ON Operation

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

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

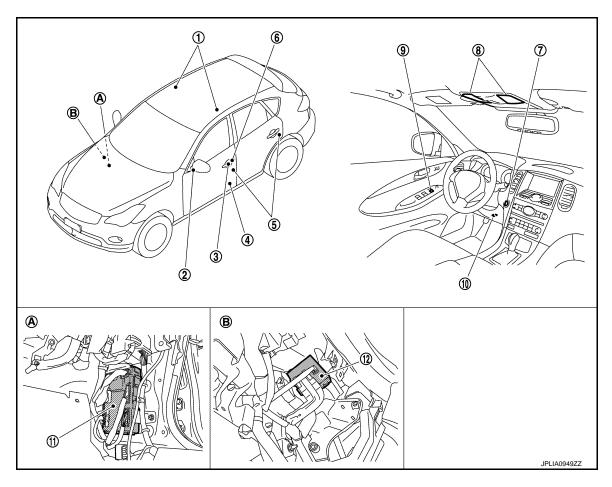
Push-button Ignition Switch Illumination OFF Operation

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

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

## **Component Parts Location**

INFOID:0000000008289401



- 1. Personal lamp
- 4. Step lamp
- 7. Push-button ignition switch illumination
- 10. Foot lamp
- A. Dash side lower (passenger side)
- 2. Puddle lamp
- 5. Door switch
- 8. Map lamp
- 11. BCM
- B. Over the glove box
- 3. Request switch
- 6. Key cylinder lock/unlock switch
- 9. Door lock/unlock switch
- 12. Remote keyless entry receiver

## Component Description

INFOID:0000000008289402

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

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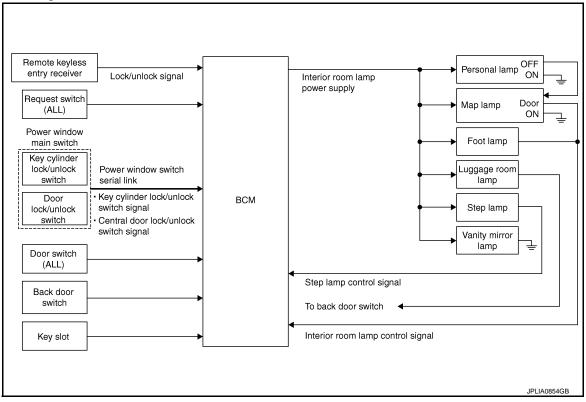
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## INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

## System Diagram

INFOID:0000000008289403



## System Description

INFOID:0000000008289404

#### **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
- Foot lamp
- Personal lamp
- Step lamp
- Luggage room lamp
- Vanity mirror lamp

#### INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

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

#### NOTE:

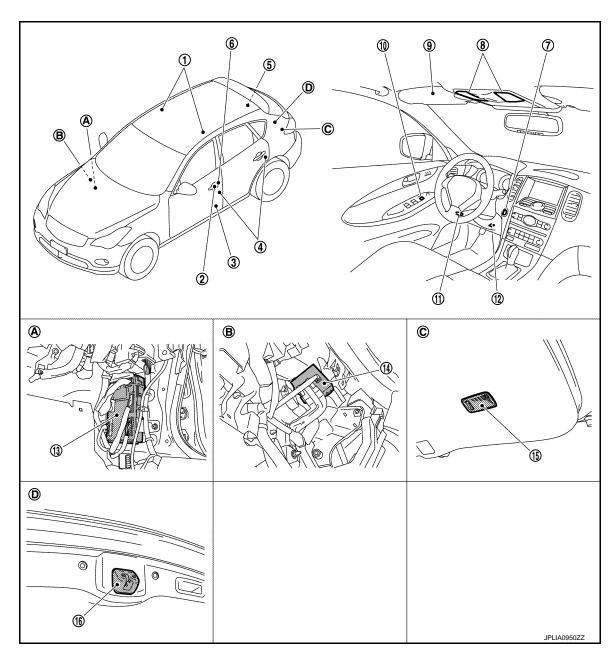
Each function of interior room lamp battery saver can be set by CONSULT. Refer to <a href="INL-18">INL-18</a>, "BATTERY SAVER)".

### INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

### < SYSTEM DESCRIPTION >

## **Component Parts Location**

INFOID:0000000008289405



- 1. Personal lamp
- 4. Door switch
- 7. Push-button ignition switch
- 10. Door lock/unlock switch
- 13. BCM
- 16. Back door switch
- A. Dash side lower (passenger side)
- D. Back door lock assembly

- 2. Request switch
- 5. Luggage room lamp (luggage side)
- 8. Map lamp
- 11. Foot lamp
- 14. Remote keyless entry receiver
- B. Over the glove box

- 3. Step lamp
- 6. Key cylinder lock/unlock switch
- 9. Vanity mirror lamp
- 12. Key slot
- 15. Luggage room lamp (back door side)
- C. Back door

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

## < SYSTEM DESCRIPTION >

## Component Description

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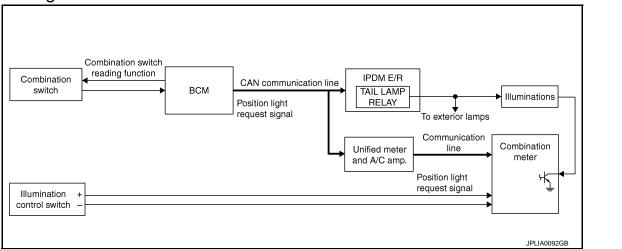
| Part  | Description  |  |  |
|---|--|--|--|
| ВСМ   | Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply. |  |  |
| Remote keyless entry receiver   | Receives the lock/unlock signal from keyfob.     Transmits the lock/unlock signal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

#### **ILLUMINATION CONTROL SYSTEM**

#### < SYSTEM DESCRIPTION >

## ILLUMINATION CONTROL SYSTEM

## System Diagram



## System Description

INFOID:0000000008289408

INFOID:0000000008289407

#### **OUTLINE**

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

Control by BCM

- Combination switch reading function
- · Headlamp control function

Control by IPDM E/R

Relay control function

Control by combination meter

Meter illumination control function (Refer to <u>MWI-27</u>, "<u>METER ILLUMINATION CONTROL</u>: <u>System Diagram</u>".)

#### ILLUMINATION CONTROL

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter (through the unified meter and A/C amp.) according to tail lamp ON condition.

Tail lamp ON condition

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

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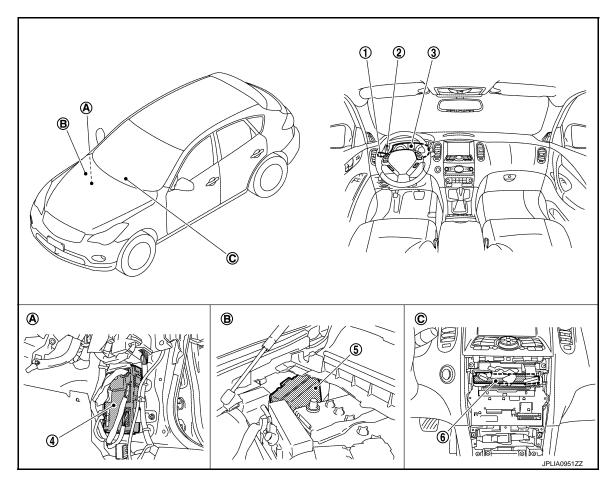
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## **Component Parts Location**

INFOID:0000000008289409



- 1. Combination switch
- 4. BCM
- A Dash side lower (passenger side)
- 2. Illumination control switch
- 5. IPDM E/R
- B. Engine room dash panel (RH)
- 3. Combination meter
- 6. Unified meter and A/C amp.
- C. Behind the cluster lid C

# Component Description

INFOID:0000000008289410

| Part   | Description   |
|--|---|
| ВСМ  | Detects each switch condition by the combination switch reading function.     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 (through the unified meter and A/C amp.)] |
| IPDM E/R   | Controls the integrated relay according to the request from BCM (with CAN communication).   |
| Combination meter                                  | Enters in nighttime mode according to the request from BCM (with CAN communication).     Controls the each illumination in the nighttime mode.     Refer to MWI-27, "METER ILLUMINATION CONTROL: System Diagram".   |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-10, "System Diagram".  |

#### < SYSTEM DESCRIPTION >

## **DIAGNOSIS SYSTEM (BCM)**

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 Diagnosis mode System Sub system selection item Work Support **Data Monitor** Active Test Door lock DOOR LOCK × X REAR DEFOGGER Rear window defogger X X Warning chime **BUZZER** × X Interior room lamp timer INT LAMP × × × Exterior lamp **HEAD LAMP** × × × **WIPER** Wiper and washer × **FLASHER** Turn signal and hazard warning lamps × X AIR CONDITONER\* · Intelligent Key system INTELLIGENT KEY × × X · Engine start system Combination switch COMB SW X Body control system **BCM** × **IVIS - NATS IMMU** ×  $\times$ **BATTERY SAVER** Interior room lamp battery saver X  $\times$  $\times$ **TRUNK** Back door open system × X THEFT ALM Vehicle security system X  $\times$  $\times$ RAP system **RETAINED PWR** X Signal buffer system SIGNAL BUFFER X X **TPMS** AIR PRESSURE MONITOR X X X

#### NOTE

#### FREEZE FRAME DATA (FFD)

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

Revision: 2013 December INL-15 2013 EX

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<sup>\*:</sup> This item is displayed, but is not used.

### < 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"*)  |  |
|                     | 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" (Except emergency stop operation)                   |  |
|                     | CRANK>RUN       |  | While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)        |  |
|                     | RUN>URGENT      |  | While turning power supply position from "RUN" to "ACC" (Emergency stop operation)                          |  |
|                     | ACC>OFF         |  | While turning power supply position from "ACC" to "OFF"   |  |
| V 1 : 1 0 15:       | OFF>LOCK        | Power supply position status of the moment a   | While turning power supply position from "OFF" to "LOCK"*   |  |
| Vehicle Condition   | OFF>ACC         | particular DTC is de-  | While turning power supply position from "OFF" to "ACC"   |  |
|                     | ON>CRANK        | tected*  | 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 supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, 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 supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

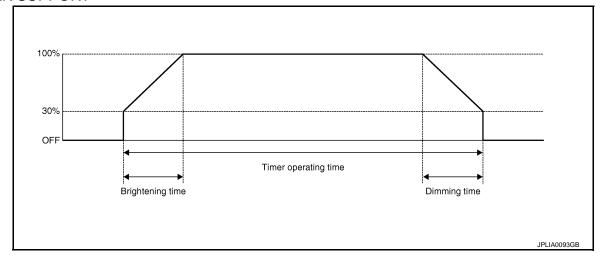
### **INT LAMP**

### < SYSTEM DESCRIPTION >

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

INFOID:0000000008289412

#### **WORK SUPPORT**



| Service item               | Setting item | Setting   |   |
|----------------------------|--------------|---|---|
| SET I/L D-UNLCK INTCON     | ON*          | With the interior room lamp timer function                                  |   |
| SET I/L D-UNLCK INTOON     | OFF          | Without the interior room lamp timer function                               |   |
| -                          | MODE 2       | 7.5 sec.  |   |
| ROOM LAMP TIMER SET        | MODE 3*      | 15 sec.   | Sets the interior room lamp ON time. (Timer operating time) |
|                            | MODE 4       | 30 sec.   |   |
|                            | MODE 1       | 0.5 sec.  |   |
|                            | MODE 2*      | 1 sec.  |   |
| ROOM LAMP ON TIME SET      | MODE 3       | 2 sec.  | Sets the interior room lamp gradual brightening time.       |
|                            | MODE 4       | 3 sec.  |   |
|                            | MODE 5       | 0 sec.  |   |
|                            | MODE 1       | 0.5 sec.  |   |
|                            | MODE 2       | 1 sec.  |   |
| ROOM LAMP OFF TIME SET     | MODE 3       | 2 sec.  | Sets the interior room lamp gradual dimming time.           |
|                            | MODE 4*      | 3 sec.  |   |
|                            | MODE 5       | 0 sec.  |   |
| R LAMP TIMER LOGIC SET     | MODE 1*      | Interior room lamp timer activates with synchronizing all doors.            |   |
| IN LAWIF THIVIEN LOGIC SET | MODE 2       | Interior room lamp timer activates with synchronizing the driver door only. |   |

<sup>\*:</sup> Initial 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<br>[Unit] | Description   |
|------------------------|---|
| REQ SW-DR<br>[On/Off]  | Indicated [ON/OFF] condition of door request switch (driver side).    |
| REQ SW-AS<br>[On/Off]  | Indicated [ON/OFF] condition of door request switch (passenger side). |
| PUSH SW<br>[On/Off]    | Indicates [ON/OFF] condition of push-button ignition switch.          |

Revision: 2013 December INL-17 2013 EX

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### < SYSTEM DESCRIPTION >

| Monitor item<br>[Unit]    | Description   |
|---------------------------|---|
| KEY SW-SLOT<br>[On/Off]   | Indicates [ON/OFF] condition of key slot.                                   |
| DOOR SW-DR<br>[On/Off]    | Indicated [ON/OFF] condition of front door switch (driver side).            |
| DOOR SW-AS<br>[On/Off]    | Indicated [ON/OFF] condition of front door switch (passenger side).         |
| DOOR SW-RR<br>[On/Off]    | Indicated [ON/OFF] condition of rear door switch RH.                        |
| DOOR SW- RL<br>[On/Off]   | Indicated [ON/OFF] condition of rear door switch LH.                        |
| DOOR SW-BK<br>[On/Off]    | Indicated [ON/OFF] condition of back door switch.                           |
| CDL LOCK SW<br>[On/Off]   | Indicated [ON/OFF] condition of lock signal from door lock unlock switch.   |
| CDL UNLOCK SW<br>[On/Off] | Indicated [ON/OFF] condition of unlock signal from door lock unlock switch. |
| KEY CYL LK-SW<br>[On/Off] | Indicated [ON/OFF] condition of lock signal from door key cylinder.         |
| KEY CYL UN-SW<br>[On/Off] | Indicated [ON/OFF] condition of unlock signal from door key cylinder.       |
| TRNK/HAT MNTR<br>[On/Off] | NOTE: The item is indicated, but not monitored.                             |
| RKE-LOCK<br>[On/Off]      | Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.           |
| RKE-UNLOCK<br>[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 LAWF          | Off       | Stops the interior room lamp control signal.   |
| STEP LAMP TEST    | On        | Outputs the step lamp control signal.          |
| STEP LAWIP TEST   | Off       | Stops the step lamp control signal.            |
| LUGGAGE LAMP TEST | On        | Outputs the trunk room lamp control signal.    |
| Off               |           | Stops the trunk room lamp control signal.      |

## BATTERY SAVER

# BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) INFOID:0000000008289413

## **WORK SUPPORT**

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

### < SYSTEM DESCRIPTION >

\*: Initial 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<br>[Unit]    | Description   |  |  |
|---------------------------|---|--|--|
| REQ SW-DR<br>[On/Off]     | Indicated [ON/OFF] condition of door request switch (driver side).          |  |  |
| REQ SW-AS<br>[On/Off]     | Indicated [ON/OFF] condition of door request switch (passenger side).       |  |  |
| PUSH SW<br>[On/Off]       | Indicates [ON/OFF] condition of push-button ignition switch.                |  |  |
| KEY SW-SLOT<br>[On/Off]   | Indicates [ON/OFF] condition of key slot.                                   |  |  |
| DOOR SW-DR<br>[On/Off]    | Indicated [ON/OFF] condition of front door switch (driver side).            |  |  |
| DOOR SW-AS<br>[On/Off]    | Indicated [ON/OFF] condition of front door switch (passenger side).         |  |  |
| DOOR SW-RR<br>[On/Off]    | Indicated [ON/OFF] condition of rear door switch RH.                        |  |  |
| DOOR SW- RL<br>[On/Off]   | Indicated [ON/OFF] condition of rear door switch LH.                        |  |  |
| DOOR SW-BK<br>[On/Off]    | Indicated [ON/OFF] condition of back door switch.                           |  |  |
| CDL LOCK SW<br>[On/Off]   | Indicated [ON/OFF] condition of lock signal from door lock unlock switch.   |  |  |
| CDL UNLOCK SW<br>[On/Off] | Indicated [ON/OFF] condition of unlock signal from door lock unlock switch. |  |  |
| KEY CYL LK-SW<br>[On/Off] | Indicated [ON/OFF] condition of lock signal from door key cylinder.         |  |  |
| KEY CYL UN-SW<br>[On/Off] | Indicated [ON/OFF] condition of unlock signal from door key cylinder.       |  |  |
| TRNK/HAT MNTR<br>[On/Off] | NOTE: The item is indicated, but not monitored.                             |  |  |
| RKE-LOCK<br>[On/Off]      | Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.           |  |  |
| RKE-UNLOCK<br>[On/Off]    | Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.         |  |  |

### **ACTIVE TEST**

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

**INL-19** Revision: 2013 December 2013 EX

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### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

## POWER SUPPLY AND GROUND CIRCUIT

**BCM** 

BCM : Diagnosis Procedure

INFOID:0000000008772675

### 1. CHECK FUSE AND FUSIBLE LINK

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

| Signal name          | Fuse and fusible link No. |  |
|----------------------|---------------------------|--|
| Rattery nower supply | К                         |  |
| Battery power supply | 10                        |  |

#### Is the fuse fusing?

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

NO >> GO TO 2.

## 2.CHECK POWER SUPPLY CIRCUIT

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

| (         | Voltage                  |          |                 |  |
|-----------|--------------------------|----------|-----------------|--|
| В         | СМ                       |          | (Approx.)       |  |
| Connector | onnector Terminal Ground |          |                 |  |
| M118      | 1                        | 1 Ground |                 |  |
| M119      | 11                       |          | 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 | Terminal | Ground | Continuity |
| M119      | 13       |        | Existed    |

## Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

#### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description INFOID:0000000008289415

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

## Component Function Check

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

### **PCONSULT ACTIVE TEST**

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

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

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

>> Interior room lamp power supply circuit is normal.

>> Refer to INL-21, "Diagnosis Procedure". NO

## Diagnosis Procedure

# $oldsymbol{1}$ . 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.

**INL-21** 

|           | Terminals |        | Test item   |                   |
|-----------|-----------|--------|-------------|-------------------|
| (+)       |           | (–)    | 163t Itelli | Voltage (Approx.) |
| BCN       | ВСМ       |        | BATTERY     |                   |
| Connector | Terminal  | Ground | SAVER       |                   |
| M119      | 4         | Oround | Off         | 0 V               |
| IVITIO    | 4         |        | On          | Battery voltage   |

#### Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace BCM. Refer to BCS-96, "Removal and Installation".

# 2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect the following connectors.
- Roof module (map lamp and personal lamp)
- Foot lamp (driver side)
- Foot lamp (passenger side)
- Vanity mirror lamp (LH)
- Vanity mirror lamp (RH)
- Luggage room lamp (luggage side)
- Luggage room lamp (back door side)

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### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

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

| BCM       |          | Each interior                      | room lan | пр       | Continuity |
|-----------|----------|------------------------------------|----------|----------|------------|
| Connector | Terminal | Connector                          |          | Terminal | Continuity |
|           |          | Roof module                        | R11      | 12       |            |
|           |          | Foot lamp<br>(driver side)         | M27      | 1        |            |
|           |          | Foot lamp (passenger side)         | M113     | 1        |            |
|           |          | Vanity mirror lamp<br>(LH)         | R12      | 2        | Existed    |
| M119      | 4        | Vanity mirror lamp<br>(RH)         | R13      | 2        |            |
|           |          | Luggage room lamp (luggage side)   | B229     | 2        |            |
|           |          | Luggage room lamp (back door side) | D110     | 2        |            |
|           |          | Step lamp<br>(driver side)         | D12      | 1        |            |
|           |          | Step lamp (passenger side)         | D42      | 1        |            |

### Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

# 3.CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

| В         | CM       |        | Continuity  |  |
|-----------|----------|--------|-------------|--|
| Connector | Terminal | Ground | Continuity  |  |
| M119      | 4        |        | Not existed |  |

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

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

#### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

### INTERIOR ROOM LAMP CONTROL CIRCUIT

Description INFOID:0000000008289418

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

#### **CAUTION:**

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

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

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

#### **PCONSULT ACTIVE TEST**

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

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

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

YES >> Interior room lamp control circuit is normal.

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

## Diagnosis Procedure

## 1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### CONSULT ACTIVE TEST

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

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

#### Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to BCS-96, "Removal and Installation".

## 2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM connector, roof module connector and foot lamp connector.
- 3. Check continuity between BCM harness connector, roof module harness connector, and foot lamp harness connector.

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### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

| BCM       |                            | Roof module/foot lamp      |      |          | Continuity |
|-----------|----------------------------|----------------------------|------|----------|------------|
| Connector | Terminal                   | Connector                  |      | Terminal | Continuity |
|           |                            | Roof module                | R11  | 9        |            |
| M119 19   | Foot lamp<br>(driver side) | M27                        | 2    | Existed  |            |
|           |                            | Foot lamp (passenger side) | M113 | 2        |            |

#### Does continuity exist?

YES >> Replace the roof module or the foot lamp.

NO >> Repair the harnesses or connectors.

# 3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector, roof module connector and foot lamp connector.
- 3. Check continuity between BCM harness connector and ground.

| В         | СМ       |        | Continuity  |
|-----------|----------|--------|-------------|
| Connector | Terminal | Ground | Continuity  |
| M119      | 19       |        | Not existed |

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM. Refer to <u>BCS-96. "Removal and Installation"</u>.

#### STEP LAMP CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

### STEP LAMP CIRCUIT

Description INFOID:0000000008289421

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

Component Function Check

#### INFOID:0000000008289422

INFOID:0000000008289423

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#### **CAUTION:**

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

- Interior room lamp power supply
- Step lamp bulb

# 1. CHECK STEP LAMP OPERATION

### (P)CONSULT ACTIVE TEST

- Turn ignition switch ON.
- Select "STEP LAMP TEST" of BCM (INT LAMP) active test item. 2.
- With operating the test items, check that step lamp turns ON/OFF.

On : Step lamp ON Off : Step lamp OFF

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

YES >> Step lamp circuit is normal.

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

## Diagnosis Procedure

## CHECK STEP LAMP OUTPUT

## **PCONSULT ACTIVE TEST**

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

| ВС        | М         |        | Test item      | Continuity  |
|-----------|-----------|--------|----------------|-------------|
| Connector | Terminal  | Ground | STEP LAMP TEST | Continuity  |
| M119      | - Glouliu |        | On             | Existed     |
|           | ,         |        | Off            | Not existed |

#### Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to BCS-96, "Removal and Installation".

## 2.CHECK STEP LAMP OPEN CIRCUIT

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

| ВС        | M        | Step lamp      |     |          | Continuity |
|-----------|----------|----------------|-----|----------|------------|
| Connector | Terminal | Connector      |     | Terminal | Continuity |
| M119 7    |          | Driver side    | D12 | 2        | Existed    |
| WITIS     | ,        | Passenger side | D42 | 2        | LXISTEG    |

#### Does continuity exist?

>> Replace step lamp.

**INL-25** Revision: 2013 December

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### **STEP LAMP CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair harnesses or connectors.

# 3.CHECK STEP LAMP SHORT CIRCUIT

- Turn ignition switch OFF.
   Check continuity between BCM harness connector and ground.

| В         | CM       |        | Continuity  |
|-----------|----------|--------|-------------|
| Connector | Terminal | Ground | Continuity  |
| M119      | 7        |        | Not existed |

## Does continuity exist?

YES >> Repair the harnesses or connectors.

>> Replace BCM. Refer to BCS-96, "Removal and Installation". NO

#### PUDDLE LAMP CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## PUDDLE LAMP CIRCUIT

Description INFOID:0000000008289424

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

## Diagnosis Procedure

## 1. CHECK PUDDLE LAMP FUSE

- 1. Turn ignition switch OFF.
- 2. Check that the following fuse is not fusing.

| Unit        | Location         | Fuse No. | Capacity |
|-------------|------------------|----------|----------|
| Puddle lamp | Fuse block (J/B) | #10      | 10 A     |

#### Is the fuse fusing?

YES >> Replace the fuse.

NO >> GO TO 2.

## 2.CHECK PUDDLE LAMP INPUT VOLTAGE

- 1. Turn ignition switch OFF.
- 2. When any door opened and closed, check voltage between BCM harness connector and ground.

| BCM       |          |            | Condition       | Voltage |
|-----------|----------|------------|-----------------|---------|
| Connector | Terminal | Ground     | Condition       | voitage |
| M122      | M122 94  |            | Door open       | 0 V     |
| W1122 94  |          | Door close | Battery voltage |         |

#### Is the measurement value normal?

YES >> Replace door mirror assembly (driver side).

NO >> GO TO 3.

## 3.CHECK PUDDLE LAMP OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector, and door mirror (driver side) connector.
- 3. Check continuity between BCM harness connector and door mirror (driver side) harness connector.

| В         | BCM      |           | door mirror (driver side) |            |
|-----------|----------|-----------|---------------------------|------------|
| Connector | Terminal | Connector | Terminal                  | Continuity |
| M122      | 94       | D3        | 14                        | Existed    |

#### Does continuity exist?

YES >> GO TO 4.

NO >> Repair harnesses or connectors.

## 4. CHECK PUDDLE LAMP SHORT CIRCUIT

- Turn ignition switch OFF.
- 2. Check continuity between BCM harness connector and ground.

| В         | CM       |        | Continuity  |
|-----------|----------|--------|-------------|
| Connector | Terminal | Ground | Continuity  |
| M122      | 94       |        | Not existed |

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM. Refer to BCS-96, "Removal and Installation".

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

< DTC/CIRCUIT DIAGNOSIS >

### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description INFOID:000000008289426

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

## Component Function Check

INFOID:0000000008289427

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

#### **®CONSULT ACTIVE TEST**

- 1. Turn the ignition switch ON.
- 2. 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:0000000008289428

## 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

- 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.

| BCM       |          | Push-button | Continuity |            |
|-----------|----------|-------------|------------|------------|
| Connector | Terminal | Connector   | Terminal   | Continuity |
| M119      | 14       | M50         | 2          | Existed    |

#### Does the continuity exist?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

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.
- 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 |                   |  |
|-----------|----------|---------|-----------|-------------------|--|
| (+) (-)   |          | (-)     | rest item | Voltage (Approx.) |  |
| В         | СМ       | ENGINES |           | voltage (Approx.) |  |
| Connector | Terminal | Ground  | ILLUMI    |                   |  |
| M123      |          |         | ON        | 5 V               |  |
| 101123    | 133      |         | OFF       | 0 V               |  |

#### Is the measurement value normal?

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

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

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

| В         | ВСМ      |                    | Push-button ignition switch |            |
|-----------|----------|--------------------|-----------------------------|------------|
| Connector | Terminal | Connector Terminal |                             | Continuity |
| M123      | 133      | M50                | 3                           | Existed    |

#### Does the continuity exist?

YES >> Replace push-button ignition switch.

NO >> Repair the harness or the connector.

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

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

| В         | CM       |        | Continuity  |
|-----------|----------|--------|-------------|
| Connector | Terminal | Ground | Continuity  |
| M123      | 133      |        | Not existed |

#### Does the continuity exist?

YES >> Repair the harness or the connector.

NO >> Replace BCM. Refer to BCS-96, "Removal and Installation".

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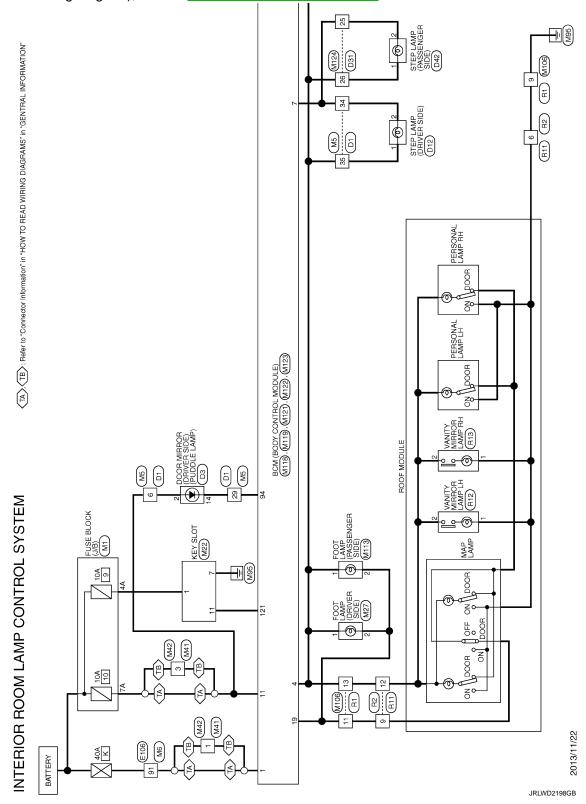
Revision: 2013 December INL-29 2013 EX

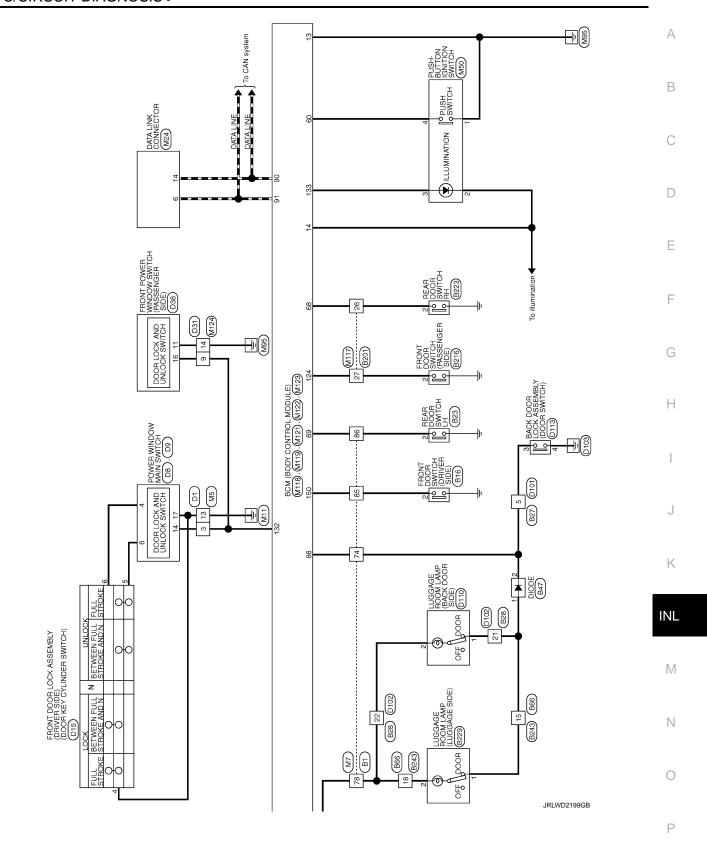
## Wiring Diagram - INTERIOR ROOM LAMP -

abbroviation: if not

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For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".





| N<br>E         | RIOR                  | INTERIOR ROOM LAMP CONTROL SYSTEM         | . SYST | ĘM     |                 |  |         |                    |   |  |
|----------------|-----------------------|---|--------|--------|-----------------|--|---------|--------------------|---|--|
| Connector No.  | or No.                |   | 09     | ۵      | - Connector No. | or No. B16                                     | Termin  | Terminal Color Of  | Signal Name [Specification]                       |  |
| Connecto       | or Name               | Connector Name WIRE TO WIRE               | 63     | J HE   |                 | Connector Name FRONT DOOR SWITCH (DRIVER SIDE) | ġ +     | Wire               |   |  |
| Connector Type | т                     | TH80FW-CS16-TM4                           | 63     | 2      | Connector Type  | or Type A03FW                                  | - 2     | 2 0                |   |  |
|                | 1                     |   | 99     | ŋ      | ,               | 1  | е       | В                  |   |  |
| 修              |                       |   | 92     | SHIELD |                 | E  | 4       | SB                 | -   |  |
|                |                       | =   | 99     | ≷      |                 | K  | 2       | _                  |   |  |
| 4              | 7                     | 1 2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 29     | >      |                 |  | 9       | В                  |   |  |
|                |                       | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 89     | g      |                 | 6  |         |                    |   |  |
|                |                       | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 69     | SHELD  |                 | <u> 1</u>                                      | Į       | Г                  |   |  |
|                |                       |   | 2 9    | ≥ 8    |                 |  | Connec  | Connector No.      | B28   |  |
|                | Transfer of the Order |   | ş ;    | 뀕.     |                 |  | Connec  | tor Name           | Connector Name WIRE TO WIRE                       |  |
| No la          | Wire C                | Signal Name [Specification]               | 75     | J W    |                 | Color Of Signal Name [Specification]           | 00000   | tor Timo           | THOUSE TIME                                       |  |
|                | •                     |   | 2 %    | 8      |                 | 2 >  | 000     | 1 Jybe             | 111241010711411                                   |  |
| י אי           | ن ک                   |   | 2 12   | śα     | 2               |  | Œ       | •                  |   |  |
| 9              | 9                     |   | . 02   | : 0    |                 |  | 手       |                    |   |  |
| ^              | 9 >                   |   | 0 0    | - E    | Connection      | Pr.No. B23                                     | H.S.    | vi                 |   |  |
| . o            | -                     |   | 83     | ä      |                 |  |         | ı                  | 3 4 5 6   |  |
| 2              | . g                   |   | 8 8    | 3 >    |                 | Connector Name REAR DOOR SWITCH LH             |         |                    | 5   |  |
| 4 5            | 3 5                   |   | 3 8    |        | Taskasana       | - T  |         |                    | 13 14 15 16 17 18 19 20 21 22 23 24               |  |
| 2 ;            | 3 8                   |   | 8 5    | 3 ;    |                 |  |         |                    |   |  |
| 4 ,            | ¥ 5                   |   | 20 8   | ، ،    | 4               |  | 1       | Transfer of Colors |   |  |
| J2             | 2                     |   | 8      | ¥      |                 | K  | i lemin | a Color Cr         | Signal Name [Specification]                       |  |
| 17             | > ;                   | ,   | 68     | n i    |                 |  | 2       | WIFE               |   |  |
| 18             | gg                    |   | 06     | 8      |                 | _  | -       | GR                 |   |  |
| 19             | 9                     |   | 91     | 9      |                 | <u> </u>                                       | က       | ≥                  | 1   |  |
| 20             | æ                     |   | 92     | H      |                 | 7  | 4       | В                  |   |  |
| 21             | SHELD                 |   | 93     | 9      |                 |  | 2       | œ                  |   |  |
| 22             | <b>\</b>              | •   | 94     | SB     | -               |  | 9       | BG                 |   |  |
| 24             | Ь                     |   | 92     | g      |                 | Terminal Color Of Signal Namo (Specification)  | 13      | BR                 |   |  |
| 27             | В                     | -   | 96     | Υ      | . No.           | Wire Oglian Manie [opecinication]              | 14      | ď                  | - [With around view monitor]                      |  |
| 28             | ٣                     |   | 86     | Μ      | . 2             |  | 14      | SHIELD             |   |  |
| 29             | W                     | -   | 66     | GR     |                 |  | 15      | В                  | - [Without around view monitor]                   |  |
| 30             | SHIELD                |   |        |        |                 |  | 15      | Υ                  | - [With around view monitor]                      |  |
| 31             | SHIELD                |   |        |        | Connector No.   | or No. B27                                     | 16      | Μ                  |   |  |
| 32             | W                     | -   |        |        | represent.      | MAIDE TO MIDE                                  | 17      | 7                  | - [With around view monitor]                      |  |
| 33             | SB                    | -   |        |        | 222             | מו יפוווס                                      | 17      | ď                  | <ul> <li>[Without around view monitor]</li> </ul> |  |
| 34             | 7                     | -   |        |        | Connecto        | Connector Type M06MW-LC                        | 18      | SHIELD             | -   |  |
| 32             | Ь                     |   |        |        | [               |  | 19      | 97                 |   |  |
| 36             | 7                     |   |        |        |                 |  | 20      | BG                 |   |  |
| 37             | а                     |   |        |        |                 |  | 21      | В                  |   |  |
| 38             | 86                    |   |        |        | H.S.            | 103  | 22      | ۵                  |   |  |
| 39             | >                     |   |        |        |                 |  | 3       | H                  |   |  |
| 44             | >                     |   |        |        |                 | 4 5 6  | 24      | α                  |   |  |
| 45             | 9                     |   |        |        |                 |  |         |                    |   |  |
| 46             | <u>.</u>              |   |        |        |                 |  |         |                    |   |  |
| 2 14           | 97                    |   |        |        |                 |  |         |                    |   |  |
| 49             | ď                     |   |        |        |                 |  |         |                    |   |  |
| 2              | >                     |   |        |        |                 |  |         |                    |   |  |
| 96             | ,                     |   |        |        |                 |  |         |                    |   |  |

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| NATERIOR ROOM LAMP CONTROL SYSTEM   10   | Γ                        | Connector No. D9            | Connector Name POWER WINDOW MAIN SWITCH | Connector Type NS03EW-CS | 4                           | [F                          |     |   |          |    | Tomoinos Os              |                      | Н        | Н            |          | Γ  |                            | Connector Name   STEP LAMP (DRIVER SIDE) | Connector Type TB02FW                 | G .                         |                          |                                  |     |             | ā | 1        | 2 2                         | ł |     |                  |   |   |     |  |        |          |    |   | 7        |
|--|--------------------------|-----------------------------|---|--------------------------|-----------------------------|-----------------------------|-----|---|----------|----|--------------------------|----------------------|----------|--------------|----------|----|----------------------------|--|---------------------------------------|-----------------------------|--------------------------|----------------------------------|-----|-------------|---|----------|-----------------------------|---|-----|------------------|---|---|-----|--|--------|----------|----|---|----------|
| Syral Name   Specification    SYSTEM   Syral Name   Syr |                          | Signal Name [Specification] |   | SIDE CAMERA I H COMM     | SIDE CAMERA LH IMAGE SIGNAL | SIDE CAMERA LH POWER SUPPLY |     | - | •        |    | SIDE CAMERA LH IMAGE GND | SIDE CAMERA LEI GIAC |          |              | •        |    |                            | D8                                       | POWER WINDOW MAIN SWITCH              | NS16FW-CS                   |                          |                                  | 3 4 | 10 11 13 14 |   |          | Signal Name [Specification] |   | ı   | 1                |   | - |     |  |        | •        |    |   |          |
| Signal Name   Specification   26   V   27   28   SHELD   29   V   27   29   LG   29   CG   29   CG   29   CG   20   CG   20  | 0                        | nal Color Of                | +                                       | +                        | Н                           | +                           | +   | H | $\dashv$ | Н  | +                        | +                    | $\vdash$ | Н            | <b>\</b> | 4  |                            | ector No.                                | sctor Name                            | ctor Type                   | •                        | Ţ                                | 2   |             |   | Color Of | Wire                        | Μ | H 8 | ¥ >              | H | Н | +   | +  | ╀      | H        | Н  | + | $\dashv$ |
| Signal Name   Specification    Signal Name   Specification   | Ē                        | Termi                       | 2 6                                     | N 65                     | 2                           | 9                           | 7 0 | = | 12       | 14 | + 4                      | 19                   | 21       | 22           | 23       | 24 |                            | Conne                                    | Corne                                 | Com                         | q                        | 手                                | •   |             |   | Tormi    | 2                           | - | 2 0 | ω 4              | 2 | 9 | 7   | 0 0  | 9      | -        | 13 | 4 | £        |
| Sgrat Name (Specification)  Sgrat Name (Specification)  Sgrat Name (Specification)  Sgrat Name (Specification)   |                          |                             |   |                          |                             |                             |     |   |          |    |                          |                      |          |              |          |    | utomatic drive positioner] | automatic drive positioner]              | utomatic drive positioner]            | automatic drive positioner] | omatic drive positioner] | omatic drive positioner]         |     |             |   |          |                             |   |     | OR (DRIVER SIDE) |   |   |     |  | 2      | 19 18 17 | 2  |   |          |
| Sgrat Name (Specification)  Sgrat Name (Specification)  Sgrat Name (Specification)  Sgrat Name (Specification)   |                          | 4                           | 1                                       |                          | a                           |                             |     |   |          |    |                          |                      |          |              |          |    | - ſWith a                  | - [Without                               | - [Without a                          | - [Without                  | - [With aut              | - [With aut                      |     |             |   |          |                             |   | 03  |                  | П |   |     |  | ij.    | 22       |    |   |          |
| Clock Control   Control  | STEM                     | +                           | +                                       | +                        | П                           | +                           | +   | H | H        | H  | +                        | +                    | H        | Н            |          | +  | #3 #8                      | 0  | GR<br>⊗                               | 9                           | > 0                      | ე >                              | +   | +           | Н | +        | 1                           |   | Т   |                  | П |   | (F) | H.S.   | 112 11 | 22       |    |   |          |
|  | OL SYSTEM                | +                           | +                                       | +                        | П                           | +                           | +   | H | H        | H  | +                        | +                    | H        | Н            |          | +  | #3 #8                      | 0  | GR<br>⊗                               | 9                           | > 0                      | ე >                              | +   | +           | Н | +        | 1                           |   | Т   |                  | П | þ | )   | H.S.   | 112 11 | 22       |    | T |          |
| 上  | ROOM LAMP CONTROL SYSTEM | Signal Name [Specification] | 25<br>26                                | +                        | П                           | +                           | +   | H | H        | H  | +                        | 37                   | 38       | WIRE TO WIRE | 40       | +  | 42 GR<br>43 BR             | 8 7 8 8 4 3 2 1 43 O                     | X   X   X   X   X   X   X   X   X   X | 9                           | 45 Y                     | Signal Name (Specification) 46 G | +   | +           | Н | +        | 1                           |   | Т   |                  | П | ά | 唐   | The state of the s | 112 11 | 22       |    |   |          |

JRLWD2367GB

| Corrector Name   Carrector Name   Carr | TERIOR ROOM LAMP CONTROL SY coar No. D15 ctor Name IRANT DOOR LOCK ASSEMBLY (DRANTR SUE) COOT Type ELGFGY-RS  (123456) | STEM  1 G - [With BOSE audio]  2 V - [With BOSE audio]  3 P - [With BOSE audio]  4 W - [With BOSE audio]  5 SB - [With BOSE audio]  6 R R - [With BOSE audio]  7 P - [With BOSE audio]  8 SHELD - [With BOSE audio]  8 SHELD - [With BOSE audio]  9 SHEL | ctor N                  | Cornector No.   D102 |
|--|--|--|-------------------------|----------------------|
| Signal Name (Specification)         Terminal Color Of Terminal Color O                               | PPW.CS15   | 2   V  | D101<br>WIRE T<br>M06FW | S                    |
|  | Signal Name (Specification)  - With BOSE audio) - (Without BOSE audio) - (Without BOSE audio)                          | Octor  | ) @ > > @               | -                    |

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| Connector | No. E106   |   | 43   | BR   | -  | 97 R                            |  |
|           | Γ  |   | 45   | Μ  |  | T                               |  |
| Connector |  |   | 49   | : -  |  | t                               |  |
| Connector | Type TH80FW-CS16-TM4   |   | 200  | ۵.   |  | ╀                               |  |
|           |  |   | 51   |  |  | ł                               |  |
| 4         |  |   | 54   | BG   | 1  |                                 |  |
| Ţ         | # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | F   | 25   | BR   |  | Connector No.                   | M1   |
| Ś         | 0 5 5 9 K 9 9 8 8 8 8 8  | Ć4.   | 99   | >  | 1  |                                 |  |
|           | # # # # # # # # # # # # # # # # # # #  |   | 09   | 91   |  | Connector Nam                   | FUSE BLOCK (J/B)   |
|           |  |   | 61   | c  |  | Connector Type                  | NS06FW-M2  |
|           | 0  |   | S CS   | 9  |  | add i jobs                      | 7  |
|           | 2 ]  | 1   | 8  | 3 3  |  | 1                               |  |
|           | L  |   | 3  | ٥  |  | 季                               |  |
|           |  | cation]   | 95   | ی م  |  | Ë                               | 3A 2A 1A   |
| t         |  |   | 8  | ۵  |  |                                 |  |
|           | . w  |   | 29   | CHE!   |  |                                 | 8A /A 0A 4A  |
| ~         |  |   | 8  | >  |  |                                 |  |
| 4         | - S  |   | 9  |  |  |                                 |  |
| · LC      | GR   |   | 02   | ?  | 1  |                                 | L  |
| α         | ,<br>;; >  |   | 1  | : n  |  |                                 | Signal Name [Specification]  |
| 0         | - 88   |   | - 62   | : >  |  | t                               |  |
| , 5       | ii   |   | 1  | ٥  |  | ╀                               |  |
| 7         | 38 8   |   | 67   | a da   | COCHENIA -   | +                               |  |
| : (       | 3 8  | I   |  | <u> </u>   | DOLLAR DE LA LOCAL   | +                               | 100000000000000000000000000000000000000  |
| 71        | - P8   |   | 5/   | ٦ (  | - [Without ICC]  | +                               | - [For push button]  |
| 2         | -  |   | 0  | 5  | -[willico]   | +                               | - [FOI Rey SIOU]   |
| 14        | ω.   |   | 75   | >  | - [Without ICC]  | 4                               |  |
| 15        | ٠.   |   | 9/   | M  | - [With ICC]   | _                               |  |
| 16        | ^  |   | 9/   | >  | - [Without ICC]  | 4                               |  |
| 17        | SB   |   | 77   | ۵  | - [Without ICC]  | 8A L                            |  |
| 18        | ^  |   | 77   | œ  | - [With ICC]   |                                 |  |
| 20        | BG -   |   | 78   | BR   | - [Without ICC]  |                                 |  |
| 21        | ٠ .  |   | 78   | ٦  | - [With ICC]   | Connector No.                   | M5   |
| 22        | ^  |   | 79   | 7  | - [Without ICC]  | Compositor Nom                  | MIDE TO MIDE   |
| 23        | 9  |   | 62   | Ь  | - [With ICC]   | COLLECTOR NATIO                 |  |
| 24        |  |   | 08   | as   | =  | Connector Type                  | TH40MW-CS15  |
| 25        | Υ .  |   | 81   | ď  | •  | <u>ַ</u>                        |  |
| 56        |  |   | 82   | SB   | -  | ß                               |  |
| 27        |  |   | 83   | 98   | -  |                                 | 2  |
| 28        | . 9  |   | 84   | ŋ  |  | Ż.                              |  |
| 31        | . BG   |   | 82   | 7  |  |                                 | を  |
| 32        | M  |   | 98   | а  |  |                                 | 2 2 2 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3  |
| 33        |  |   | 87   | >  |  |                                 |  |
| 34        | ~  |   | 88   | GR   |  |                                 |  |
| 32        | 9  |   | 06   | SHELD  |  | Terminal Color                  |  |
| T         | HIELD  |   | 91   | ×  | •  | No. Wire                        | Signal Name [Specification]  |
| 37        | ^  |   | 95   | >  |  | -                               |  |
| 38        | BR -   |   | 93   | >  |  | 2 B                             |  |
| 39        | BG -   |   | 6  | 97   |  | 3 BR                            |  |
| 41        | W  |   | 92   | BG   | •  | ┝                               |  |
| 42        | . 9  |   | 96   | Д  |  | 2 F                             |  |
|           | Connector   Conn | Color   No.   Color   No. | Connector No. E106  Connector Name WIRETO WIRE  Connector Type TH90FW.CS16.TM4  Interest Color Of Signal Name (Specification)  Interest Color Of Signal Name (Specific | WINE TO WINE THEOFWAGSTETMA  Signal Name (Specification) | WINE TO WINE THEOPHYCSTE THAT THEOPHYCSTE THAT Signal Name (Specification)  Signal Name (Specification) | Signal Name Specification   6 1 | Signal Name   Societication     150   15 |

JRLWD2369GB

#### INTERIOR ROOM LAMP CONTROL SYSTEM

#### < DTC/CIRCUIT DIAGNOSIS >

| - INTERPORTED -              | Н                             | 100 SB - |                                  | ſ  | Connector No. M7 | Connector Name IWIRE TO WIRE            | ╗    | Connector Type TH80MW-CS16-TM4 |      |    |      |   | 2<br>2<br>2<br>2<br>3<br>3<br>3 | 8 | 3 L | S |             |        | Tarminal Color Of |     | WIIE  | +        | <ol> <li>W - [Without automatic drive positioner]</li> </ol> | - · · · · · · · · · · · · · · · · · · · | ŀ | t | + | _ | 12 SB -               | L | ł    | + | + | 17 W |         | Г | Т | 23 Sallina | Т | 22 Y - | 24 V -   | _ | 2 00 | +   | Z 28  | 30 SHIELD - | _                      | 32 P  | F | + | 4    | 35 P -      | L    | ╀ |       | - Va 00   | + |              |
|------------------------------|-------------------------------|----------|----------------------------------|----|------------------|---|------|--------------------------------|------|----|------|---|---------------------------------|---|-----|---|-------------|--------|-------------------|-----|-------|----------|--|---|---|---|---|---|-----------------------|---|------|---|---|------|---------|---|---|------------|---|--------|----------|---|------|-----|-------|-------------|------------------------|-------|---|---|------|-------------|------|---|-------|-----------|---|--------------|
| 43 BG -                      | Н                             | +        | 50 P                             | BK | · .              |   |      |                                | 9    | 95 | as a | 9 | L                               | H                                       | +   | 7 | 67 SHIELD - | - × 89 | de                | 5 - | 97 0/ | $\dashv$ | 72 Y -   | 73 SB -                                 | ╀ |   |   |   | 76 GR - [Without ICC] | ^ | :: 0 | + | Y |      | œ       | > | ╀ | - 8        | + | -      | 82 SB -  | H | ╀    | 5 - | +     | $\dashv$    | -                      | 89 GR | ď | Т | 4    | 92 Y        | . BR | ╀ | 95    | - OF - OF | + | 3/ 1 / 1 / 1 |
| SYSTEM Connector No.   Mile  | Connector Name   WIRE TO WIRE | 7        | Connector Type   TH80MW-CS16-TM4 |    |                  | 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |      | # 2 E                          |      |    |      |   | Color Of                        | No. Wire Signal Name [Specification]    |     | + | _           | 3 B    | A SHELD           | T   | 9     | +        | 9 BR -   | 10 R                                    | ╀ | ╀ | + | _ | 14 R                  | L | +    | + | 4 | -    | 20 BG - | H | ╀ | 27 60      | + | -      | 25 Y -   | H | ╀    | +   | 5 9 7 | 4           |                        | 33 B  | ╀ | + | 35 R | 36 SHIELD - | Г    | ╀ | 22 28 | +         | + | ┥            |
| INTERIOR ROOM LAMP CONTROL ( | Н                             | +        |                                  | +  | 4                | 12 V -                                  | 13 B | _                              | 15 W | L  | +    | 4 | L                               | Ļ                                       | +   | 4 |             |        |                   |     | 24 Y  | - 1      |  |   |   |   | + |   | _                     | Н | +    | + | + |      | _       | Н | + | - 0        | + |        | $\vdash$ | ⊦ | ╀    | +   | +     | 9           | SB - [With automatic d | ⊦     |   | + | 4    | _           | ⊦    | ╀ | 33 55 | ┨         |   |              |
|                              |                               |          |                                  |    |                  |   |      |                                |      |    |      |   |                                 |   |     |   |             |        |                   |     |       |          |  |   |   |   |   |   |                       |   |      |   |   |      |         |   |   |            |   |        |          |   |      |     |       |             |                        |       |   |   |      |             |      |   |       |           |   |              |

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| 46 GR 47 SB 47 SB 49 Y SB 49 Y SB 60 P P P P P P P P P P P P P P P P P P |               |                                    |                                      |   |
|--|---------------|------------------------------------|--------------------------------------|---|
|  | Connector No. | or No. M22                         | Connector No. M27                    | Connector No. M42                             |
|  | toogeo        | TO IS VEN SHOW                     | Compactive Name (DDI)/CD SIDE)       | Commenter Name TAIN OF TO WIND                |
|  |               | O regime IVET SECTI                |                                      | COLLECCO I VALVE TO VILVE                     |
| <del></del>  | Connect       | Connector Type TH12FW-NH           | Connector Type A02FW                 | Connector Type M03FW-LC                       |
|  | 4             |                                    | q                                    | 4   |
|  |               |                                    |                                      |   |
|  | •             |                                    | K                                    |   |
| <del></del>  | S H           |                                    |                                      | - A   |
| <del></del>  |               | 1 2 3 5 6                          | 1 6                                  |   |
|  |               |                                    | 7                                    | 3.2   |
|  |               |                                    |                                      |   |
| <del></del>  |               |                                    |                                      |   |
|  | Termina       | erminal Color Of                   | Terminal Color Of                    | Terminal Color Of                             |
|  | -ÖN           | Wire Signal Name [Specification]   | No. Wire Signal Name [Specification] | No. Wire Signal Name (Specification)          |
| <del></del>  | -<br>         | R BAT                              |                                      | w -   |
| <del>                                     </del>                         | 2             | GR CLOCK                           | 2 BR -                               | 2 Y   |
| <del></del>  | e             | W DATA                             |                                      | 3<br>2  |
| <del>                                      </del>                        | 2             | Y ILL BAT                          |                                      |   |
| <del></del>  | 9             | 111 91                             | Connector No. M41                    |   |
| <del>                                     </del>                         | _             | B GROUND                           |                                      | Connector No. M50                             |
| <del>                                     </del>                         | £             | KEY                                | Connector Name WIRE TO WIRE          |   |
| <del>                                      </del>                        | ]<br>         |                                    | Connector Type M03MW-LC              | Connector Name PUSH-BULLON IGNITION SWITCH    |
| <del>                                      </del>                        |               |                                    |                                      | Connector Type TK08FBR                        |
| <del>                                     </del>                         | Connector No  | or No M24                          |                                      | 1   |
| +++++  | 00            | 170                                | 至了                                   | €.  |
| ++++   | Connect       | Connector Name DATA LINK CONNECTOR | · ·                                  | []  |
| ++++   |               |                                    |                                      |   |
| +++  | Connect       | Connector Type BUTBHW              | 2 3                                  | 1   |
| ₩  | [d            |                                    | 2 1                                  | 8 / 9 6 / 8                                   |
| ₩  | 厚             |                                    |                                      |   |
| +  |               |                                    |                                      |   |
| _  | Ě             | 7 14 16                            | a                                    |   |
|  |               |                                    | No. Wire Ogna rame Lopecincation     | Terminal Color Of Signal Nama (Specification) |
| 93 BR -  |               | 3 4 5 6 7 8                        | 1 W                                  | No. Wire ogner reme openication               |
| - N 8  |               |                                    | 2 Y -                                | - B   |
| - 9 9 96   |               |                                    | 3 R                                  | 2 W   |
| - A 96   | Termina       | Ferminal Color Of                  |                                      | 3 W   |
| - M 86   | .ON           | Wire ognal Marie [opecification]   |                                      | 4 BR  |
| 99 R   | e             | - 91                               |                                      | 5 GR  |
|  | ]             |                                    |                                      | H   |
|  | - K           |                                    |                                      |   |
|  |               |                                    |                                      | ╁   |
|  | ا 0           |                                    |                                      | χ.  |
|  | \             | >                                  |                                      |   |
|  | 00            | 9                                  |                                      |   |
|  | =             | SB                                 |                                      |   |
|  | 14            |                                    |                                      |   |
|  | 16            | Υ .                                |                                      |   |

JRLWD2371GB

#### INTERIOR ROOM LAMP CONTROL SYSTEM

| Connector No. M119  Connector Name BCM (BODY CONTROL MODULE)  Connector Type NS16FW.CS  4 5 7  | Terminal Codor Of   Signal Name   Specification   No.   Wire   |  |
|--|--|--|
| 67 WW 69 SHELD 69 SHELD 770 Y 771 SB 771 WW 772 WW 775 WW 775 WW 775 WW 775 WW 775 WW 785 WW  | S S S S S S S S S S S S S S S S S S S  |  |
| 10 Signa M117 M117 MRETO WILL  | Coor Of Signal Name   Specification  |  |
| CONTROL SYSTEM Terminal Colo W. W. W. W. W. W. W. Colorator Na. Corrector Na. Correcto | Terminal (1998) 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8   |  |
| AMP 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15   | Signal Name (Spec  |  |
| INTERIOR ROOM I Cornector No. Minos Cornector Name WIRE TO WIRE Cornector Type Netrotowic Stro  1 2 3 H.S. 7 8 9 44  | Terminal Codor Of No. Wive   Codor Of No. Wi |  |

JRLWD2372GB

Revision: 2013 December INL-39 2013 EX

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| Г                                 | Connector No. K1            | Connector Name WIRE TO WIRE | Connector Type NH10FW-CS10 | ą.                                       | <u> </u>         | 2 2 1 | 13 12 11 10 0                            | 2 4                                     | 18 10 14                                 | Terminal Color Of Signal Name (Specification)       | 0                              | T      | 2 SHELD  | 3 L | á    | L    | 7 BR - | 8 Y                         | . В 6                  | 10 Y -              | $\dashv$            | -                | $\dashv$         | +          | 75          | 16 B                              |                       |                             | Connector No. R2        | Consider Name 10 WIBE TO WIBE |          | Connector Type TH12FW-NH | á                 | 唐                                     | <u>[</u>         |                | 6 5 4 3 2 1                     | 1211 9 8 7 |   |                        | e<br>e                      | NO. WIRE                            | . Ad .         | 3 SHED          | ٦  |
|-----------------------------------|-----------------------------|-----------------------------|----------------------------|--|------------------|-------|--|---|--|---|--------------------------------|--------|--|-----|------|------|--------|-----------------------------|------------------------|---------------------|---------------------|------------------|------------------|------------|-------------|-----------------------------------|-----------------------|-----------------------------|-------------------------|-------------------------------|----------|--------------------------|-------------------|---------------------------------------|------------------|----------------|---------------------------------|------------|---|------------------------|-----------------------------|-------------------------------------|----------------|-----------------|--|
| Γ                                 | Comector No. M124           | Connector Name WIRE TO WIRE | Connector Type TH40MW-CS15 | Q  | MAD .            | . S   | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | S X X X X X X X X X X X X X X X X X X X |  | Terminal Color Of Signal Name (Spanification)       | No. Wire olynamia chemicatorij | +      | 5] 8   | 13  | 13 \ | 14 B | _      | 16 BR -                     | 17 B -                 | $\dashv$            | В                   | W                | >                | 9 .        | +           | 22 SB - 2                         | $^{+}$                | ╀                           | 26 R -                  | 29 SHIELD -                   | $\dashv$ | $\dashv$                 | +                 | 7                                     | $\dashv$         | 35 G .         | 43 L -                          | +          | + | +                      | +                           | $^{+}$                              | W #0           | ┨               |  |
|                                   | 110 G HAZARD SW             |                             | Connector No. M123         | Connector Name BCM (BODY CONTROL MODULE) |                  | 1     |  |   |  | 131 (80) (31 (81 (81 (81 (81 (81 (81 (81 (81 (81 (8 |                                | ;<br>; | I erminal Color Ut Signal Name [Specification] | 1.  | SB.  | 3 a  | SB DRD | 121 BR KEY SLOT SW          | 123 W IGN F/B          | 97                  | æ                   | W PUSH-BUTTON!   | GR               | g ;        | -   ·       | 139 L LIRE PRESSURE RECEIVER COMM |                       | p Sg                        | 143 P COMBI SW OUTPUT 1 | 144 G COMBI SW OUTPUT 2       | ٦        | SB                       | Pl                | 151 G REAR WINDOW DEFOGGER RELAY CONT |                  |                |                                 |            |   |                        |                             |                                     |                |                 |  |
| INTERIOR ROOM LAMP CONTROL SYSTEM | BACK DOOK OPENER REQUEST SW | REAR WIPER STOP POSITION    | BACK DOOR SW               | BACK DOOR OPENER SW                      | REAR I H DOOR SW |       |  | M122                                    | Connector Name BCM (BODY CONTROL MODULE) | TH40FB-NH   |                                |        |  | 53  | 3 2  |      |        | Signal Nama [Spacification] | data remolephenication | PASSENGER DOOR ANT- | PASSENGER DOOR ANT+ | DRIVER DOOR ANT- | DRIVER DOOR ANT+ | ROOM ANT1- | KOOM ANI 1+ | NATS ANT AMP.                     | FNOO (0/3) XV EIGINOI | KEYLESS ENTRY RECEIVER COMM | COMBI SW INPUT 5        | COMBI SW INPUT 3              | CAN-L    | CAN-H                    | KEY SLOT ILL CONT | ON IND                                | PUDDLE LAMP CONT | ACC RELAY CONT | A/T SHIFT SELECTOR POWER SUPPLY | SHIFT P    |   | DRIVER DOOR REQUEST SW | BLOWER FAN MOTOR RELAY CONT | KEYLESS ENTRY RECEIVER POWER SUPPLY | COMBI SW INPUT | COMBLSW INPUT 4 | 4 10 11 10 10 10 10 10 10 10 10 10 10 10 |
| INTERIOR                          | 64 W                        | F                           | 66 R                       | +  | 68<br>BR         | ┨     |  | Connector No.                           | Connector Name                           | Connector Type TH40FB-NH                            | q                              | 医      | Si<br>V  |     |      |      |        | la                          | $\dashv$               | 74 SB               | 75 GR               | $\dashv$         | 77 LG            | +          | +           | 80 GK                             | $^{+}$                | ╁                           | 87 BR                   | 88 \                          | 90 P     | 91 L                     | 92 LG             | 93                                    | +                | +              | $\dashv$                        | 4          | + | +                      | +                           | 103<br>104                          | +              | 109<br>X        |  |

JRLWD2373GB

#### INTERIOR ROOM LAMP CONTROL SYSTEM

|                                   | R12           |    | WANIET MIRROR LAMP LH | MCA02FW        |    | Ú | 1  |        | 2 | ]             |                   | Signal Name [Specification] |      |     |      | R13           | e VANITY MIRROR LAMP RH | e MCA02FW      | Q                             | 1 |        | ľ | 7 | ] |   |                   | e ogran varne [Specification] |     | -   | Ī  |
|-----------------------------------|---------------|----|-----------------------|----------------|----|---|----|--------|---|---------------|-------------------|-----------------------------|------|-----|------|---------------|-------------------------|----------------|-------------------------------|---|--------|---|---|---|---|-------------------|-------------------------------|-----|-----|----|
| YSTEM                             | Connector No. | 14 | Corriector Name       | Connector Type |    |   | Į. | Ž<br>V |   |               | Terminal Color Of | No. Wire                    | -    | 2 - |      | Connector No. | Connector Name          | Connector Type | 42                            | 3 | Ž<br>E |   |   |   |   | Terminal Color Of | No. Wire                      | 1 - | 2 - |    |
| S TO                              | ┌             | Г  |                       |                |    | _ |    |        | l | П             |                   | 1                           | <br> |     |      | U             |                         | U              |                               |   | _      |   |   |   |   |                   |                               |     |     |    |
| INTERIOR ROOM LAMP CONTROL SYSTEM |               |    |                       | -              |    | - |    | -      |   | R11           | WIRE TO WIRE      | TH12MW-NH                   |      |     |      | 1 2 3 4 5 6   | 7 8 9 1112              |                | Signal Name [Specification]   |   | =      | - | - | - |   | =                 |                               |     | -   |    |
| RIOF                              | 8             | ×  | В                     | Ь              | SR | ۸ | Ь  | æ      |   | r No.         | r Name            | r Type                      | ,    |     |      |               |                         |                | Terminal Color Of<br>No. Wire | - | -      |   |   |   | - | -                 |                               |     |     |    |
| INTE                              | 4             | 5  | 9                     | 7              | 8  | 6 | 11 | 12     |   | Connector No. | Connector Name    | Connector Type              |      | B   | H.S. |               |                         |                | Terminal<br>No.               | 1 | 2      | 3 | 4 | 5 | 9 | 7                 | 8                             | 6   | 11  | 12 |

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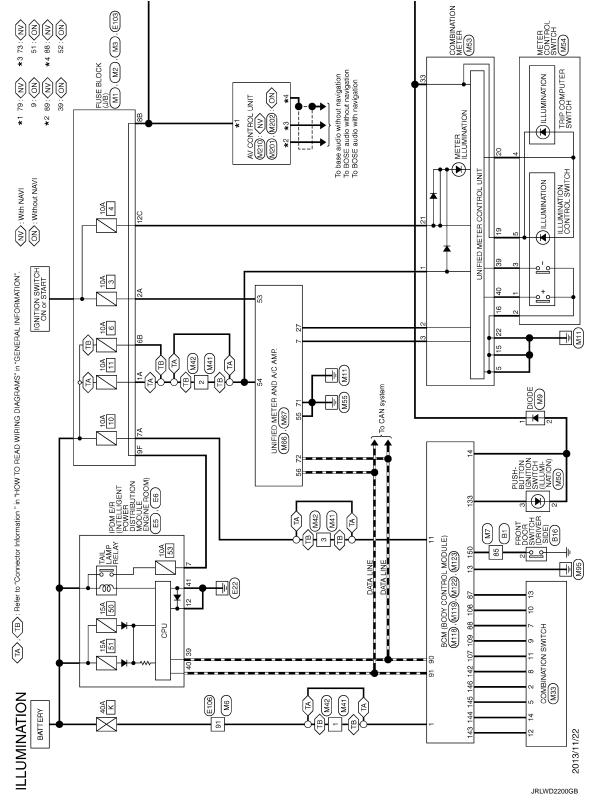
#### **ILLUMINATION**

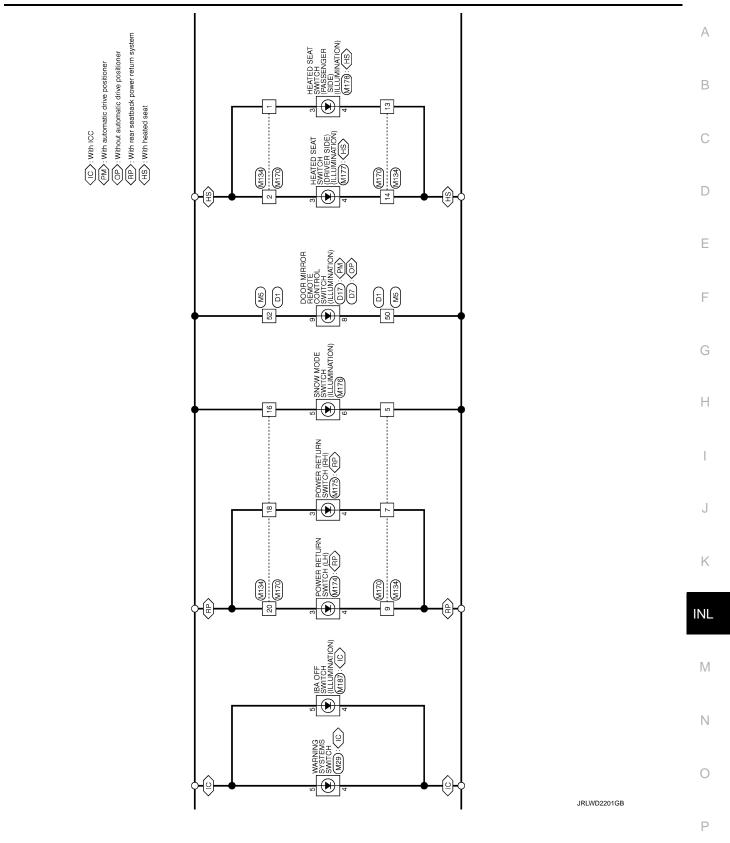
### Wiring Diagram - ILLUMINATION -

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not

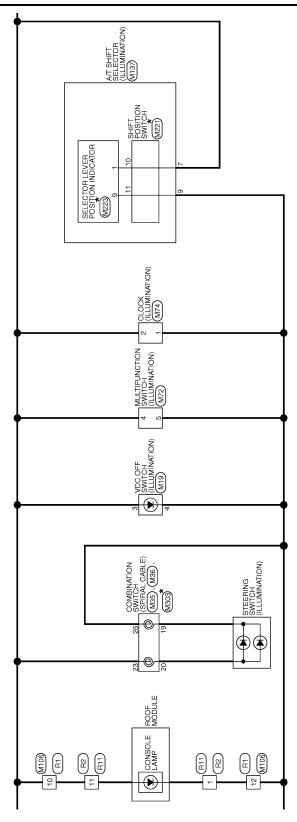
INFOID:0000000008289430

described in wiring diagram), refer to GI-12, "Connector Information".





\*: This connector is not shown in "Harness Layout".



JRLWD2202GB

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|----------------|-------------------|--|-----|--------|---|-------------------|--------------------------------------|-------------------|--|--|
| Connector No.  | tor No.           | . B1                                     | 09  | ۵      | - | Connector No.     | B5                                   | Connector No.     | B16                                      |  |
| Connec         | Connector Name    | me WIRE TO WIRE                          | 6   | 그      |   | Connector Name    | me WIRE TO WIRE                      | Connector Name    | FRONT DOOR SWITCH (DRIVER SIDE)          |  |
| Connector Type | tor Type          | pe TH80FW-CS16-TM4                       | 63  | 2      |   | Connector Type    | De TH32MW-NH                         | Connector Type    | A03FW                                    |  |
| Q              |                   |  | 64  | IJ,    |   | Q                 | 1                                    | q                 |  |  |
| 厚              |                   | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2    | 65  | SHIELD |   | 厚                 |                                      | 医                 |  |  |
| HS             | Ø                 |  | 90  | >      |   | H.S.              |                                      | HS.               |  |  |
|                | ı                 |  | 89  | SS     |   |                   | 8 7 8 9 10 11                        |                   | 2  |  |
|                |                   | × 10 00 00 00 00 00 00 00 00 00 00 00 00 | 69  | SHIELD | O |                   | 21 22 23 24 25 26 27 28 29 30 31     |                   | <u> </u>                                 |  |
|                |                   |  | 70  | Μ      |   |                   |                                      |                   |  |  |
|                | -                 |  | 73  | SB     | 1 |                   |                                      |                   |  |  |
| Terming        | Terminal Color Of | or Of Signal Name [Specification]        | 74  | ٦,     | 1 | Terminal Color Of | color Of Signal Name [Specification] | Terminal Color Of | Signal Name [Specification]              |  |
| 2              | ľ                 |  | 9 9 | \$ 8   |   | +                 |                                      | +                 |  |  |
| o LC           | 2 ر               |  | 2/  | 6 ~    |   | - 6               | 2 %                                  | -                 |  |  |
| ဖ              | , in              |  | 28  | ۵      |   | ╀                 |                                      |                   |  |  |
| 7              | >                 |  | 6/  | GR     |   | 4                 |                                      | Connector No.     | B46                                      |  |
| ∞              | _                 | ٠  | 83  | BG     | 1 | 2                 | - M                                  | N. C.             | The LOCATION CONTRACTOR OF STREET        |  |
| 12             | Š                 | 99                                       | 82  | >      |   | 9                 |                                      | Connector Name    | ARCICIND VIEW MONITOR CONTROL UNIT       |  |
| 13             | 97                |  | 98  | PT     |   | 7 L               |                                      | Connector Type    | TH40FW-NH                                |  |
| 14             | Ö                 | GR .                                     | 87  | ≻      |   | 8                 | 8                                    |                   |  |  |
| 15             | Ľ                 | 9  | 88  | ۳      |   | 6                 |                                      | 1                 |  |  |
| 17             | 3                 | . ·                                      | 88  | 8      |   | 10 S              | - 88                                 | Į                 |  |  |
| 18             | SB                |  | 06  | BB     |   | 11 G              | GR -                                 | ė<br>E            | 7  |  |
| 19             | ۲                 |  | 91  | 9      | 1 | 12 \              | - M                                  |                   | 18 22 28 28 39 32 38                     |  |
| 20             | B                 |  | 95  | BR     |   | 13 SHI            | SHIELD -                             | <u>-1</u> 1       | 3 5 7 9 10 17 21 23 27 29 31 28 35 37 38 |  |
| 21             | SHIELD            | ELD -                                    | 93  | 9      | - | 14 S              | SB -                                 |                   |  |  |
| 22             | Υ .               | - ·                                      | 94  | SB     | - | 15 G              | GR -                                 |                   |  |  |
| 24             | 4                 | Р .                                      | 92  | 9      |   | 16                | Р .                                  | Terminal Color Of | Oland Name (Occopionis                   |  |
| 27             | В                 |  | 96  | Υ      | = | 21 (              |                                      | No. Wire          | ognal varie (opecification)              |  |
| 28             | R                 |  | 86  | M      |   | 22                | B                                    | 1 B               | GROUND                                   |  |
| 58             | >                 | . · ·                                    | 66  | GR     | - | 23 SHI            | SHIELD -                             | 2 Y               | BATTERY                                  |  |
| 30             | SHIELD            | ELD .                                    |     |        |   | 24 B              |                                      | 3 P               | IGNITION SIGNAL                          |  |
| 31             | SHIELD            | ELD -                                    |     |        |   | Н                 | BR -                                 | 4 GR              | ACC                                      |  |
| 32             | W                 |  |     |        |   | 26                | - · · · ·                            | 5 BG              | ILLUMINATION SIGNAL                      |  |
| 33             | š                 |  |     |        |   | 27 \              |                                      | e SB              | VEHICLE SPEED SIGNAL (8-PULSE)           |  |
| 34             | _                 |  |     |        |   | 28 F              | В .                                  | 7                 | REVERSE SIGNAL                           |  |
| 35             | а                 | Р .                                      |     |        |   |                   |                                      | ^                 | CONTROL SIGNAL                           |  |
| 36             | _                 |  |     |        |   | 30 SHI            | SHIELD -                             | 13 B              | CONTROL SIGNAL                           |  |
| 37             | Д                 | Р .                                      |     |        |   | 31                | Υ .                                  | 17 SB             | AV COMM (H)                              |  |
| 38             | B                 | BR -                                     |     |        |   |                   |                                      | 18 LG             | AV COMM (L)                              |  |
| 39             | ٨                 | -  |     |        |   |                   |                                      | 21 SB             | AV COMM (H)                              |  |
| 44             | \                 | · .                                      |     |        |   |                   |                                      | 22 LG             | AV COMM (L)                              |  |
| 45             | 4                 | GR -                                     |     |        |   |                   |                                      | 23 LG             | •  |  |
| 46             | $\dashv$          | re                                       |     |        |   |                   |                                      | $\dashv$          |  |  |
| 47             | 4                 | SB -                                     |     |        |   |                   |                                      | 27 W              | CAMERA IMAGE SIGNAL                      |  |
| 49             | 4                 |  |     |        |   |                   |                                      | 28 SHIELD         | CAMERA IMAGE SIGNAL GND                  |  |
| 20             | >                 |  |     |        |   |                   |                                      | 29 Y              | SIDE CAMERA RH IMAGE SIGNAL              |  |
|                |                   |  |     |        |   |                   |                                      |                   |  |  |

JRLWD2375GB

|              | Connector No. E5                          | Connector Name PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE FINGING ROOM) | ,                  | Connector Type TH20FW-CS12-M4-1V | ď.                          |                  |                          |        |    | 36                       |                               |                                       |     | a<br>B  | No. Wire ogneringenoring | 4 V               | 5 L                  | 7 R            | -                      | $\dashv$ | + | + | +    | 26 K                                     | - 86   | +                 | K5 00                                      | ┨    |          | Connector No. E6 | 5  |        | Connector Type TH08FW-NH | ą́. | AND |                  | 2000   | 7                    | 46 45 44 43 |     | Terminal Color Of | No wire Signal Name [Specification] |          | 39 P                                    | ┥                | ┥  |    | 44 BR - | 9  | ⊢  | -{ |
|--------------|---|---|--------------------|----------------------------------|-----------------------------|------------------|--------------------------|--------|----|--------------------------|-------------------------------|---------------------------------------|-----|---------|--------------------------|-------------------|----------------------|----------------|------------------------|----------|---|---|------|--|--------|-------------------|--|------|----------|------------------|----|--------|--------------------------|-----|-----|------------------|--|----------------------|-------------|-----|-------------------|-------------------------------------|----------|---|------------------|----|----|---------|----|----|----|
|              | rial Color Of Signal Name [Specification] | +   | m :                | >                                | 8                           | _                | . 9                      | H      | F  | 50                       | $^{+}$                        | +                                     | - 0 |         | -[                       | Connector No. D17 | HOUSE CONTROL SWITCH |                | Connector Type TK16FBR |          |   |   |      | 8 9 10 11 12 13 15                       |        |                   | Color Of                                   |      | ╁        | 8                | H  | Н      | GR -                     | +   | +   | - ·              | - ·  |                      |             |     |                   |                                     |          |   |                  |    |    |         |    |    |    |
|              | Terminal                                  | <u></u>   |                    | _                                | ∞                           | 6                | 10                       | 12     | 13 | 2                        | <u> </u>                      | 2                                     | 16  |         |                          | Conne             | C                    | 5              | Conne                  | 4        | 厚 | ۲ |      |  |        |                   | Terminal                                   | Ź    | 4        | 7                | 8  | 6      | 10                       | =   | 12  | 13               | 2  |                      |             |     |                   |                                     |          |   |                  |    |    |         |    |    |    |
|              | Н   | 25 GK   |                    | В                                | 9                           | 29 LG -          | 30 6                     | H      | H  | ) _                      | 7                             | N N N N N N N N N N N N N N N N N N N | +   | 36 LG - | $\dashv$                 |                   | 39 0 -               | 40 BR -        | $\dashv$               | GR       | _ | 0 | GR   | 44 W - [With automatic drive positioner] | י פ    | - (               | 46 V - Without automatic drive positioner] | . e  | ╀        | œ                | SB | 54 0 - | 55 Y -                   |     |     | Connector No. D7 | Connector Name DOOR MIRROR REMOTE CONTROL SWITCH | Comments Time TM46EW |             |     | AH                |                                     |          | 0 | 8 10 17 19 14 19 |    |    |         |    |    |    |
|              | П   |   |                    |                                  |                             |                  |                          | L      | L  | L                        | 1<br>T                        | 1                                     | 1   | _       | _ <br>_                  |                   |                      | _              |                        | 0        |   |   |      |  | ,<br>T |                   |  | <br> | <u>L</u> | <u> </u><br>     |    |        |                          | _   | T   | 3                | ී<br>T   | ľ                    | <u>]</u> [  | 413 | j<br>T            |                                     | <b>.</b> | 7                                       |                  | 7  |    |         |    | Ι  | 1  |
|              | SIDE CAME                                 |   | SIDE CAMERA RH GND | SIDE CAMERA RH COMM              | SIDE CAMERA RH POWER SUPPLY | REAR CAMERA COMM | REAR CAMERA POWER SUPPLY | CTBIHS |    | BEAR CAMERA IMAGE SIGNAL | DESIGNATION INVOCATION OF THE | REAR CAMERA IMAGE GND                 |     |         | D1                       | WIPE TO WIPE      |                      | TH40FW-CS15    |                        |          |   |   | ## 1 |  |        |                   | Signal Name [Specification]                |      | ,        |                  |    |        | •                        |     |     | •                | -  |                      |             |     |                   |                                     |          |   |                  |    | •  |         |    |    |    |
| ILLUMINATION | 0 !                                       | OHIETO  | в :                | >                                | ď                           | 7                | BR                       | SHELD  | α  | : >                      | -                             | \$                                    |     | ĺ       | Connector No.            | Connector Name    |                      | Connector Type |                        | ,        | , |   |      | _  |        | Torminal Color Of | Wire                                       | ۵    | <u>_</u> | >                | W  | T      | 0                        | GR  | 3   | 0 8              | ž c  |                      | 2 "         | >   | ×                 |                                     | <u> </u> | ≥                                       | g                | >  | W  | 0       | Ь  | H  | Ś  |
| $\exists$    | g ,                                       | 5 8   | 32                 | 33                               | 34                          | 35               | 36                       | 37     | 38 | 8 8                      | 8                             | ₽                                     |     |         | nnect                    | ,tooda            | 20                   | nnect          | 1                      | 图        | Æ | 1 |      |  |        |                   | 2  | -    | ~        | 3                | 4  | 5      | 9                        | _   |     | on :             | ₽ ;  | 5                    | 4 5         | 14  | 15                | 5 6                                 | ! اه     | 4                                       | 18               | 19 | 20 | 21      | 22 | 23 | 3  |

JRLWD2376GB

**INL-47** Revision: 2013 December 2013 EX

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|--|---|----|----------|-----------------|----------|-------------|-----------------------------|--|
| First BLOCK LIB)   | r No. E103                              | 17 | SB       |                 | 77       | ۵           | - [Without ICC]             | 8A L   |
| Signature   Sign |   | 18 | Н        |                 | 77       | œ           | - [With ICC]                |  |
| Note the control of |   | 20 |          | -               | 78       | +           | - [Without ICC]             |  |
| Compact Name   Specification    Compact Name   C | г                                       | 21 | _        |                 | 78       | _           | - [With ICC]                | Г  |
| 1   1   1   1   1   1   1   1   1   1  |   | 22 | L        |                 | 162      | _           | - [Without ICC]             |  |
| Separate Name (Specification)   23   V   Corrector Name (Specification)   Corrector Name (Specifi |   | 23 | H        |                 | 79       | H           | - [With ICC]                |  |
| 1   1   1   1   1   1   1   1   1   1  |   | 24 | H        | ٠               | 80       | H           |                             | Connector Type NS10FW-CS   |
| 1   1   1   1   1   1   1   1   1   1  |   | 25 | H        |                 | ∞        | ┝           |                             |  |
| Signat Name   Specification   See   C   C   C   C   C   C   C   C   C  | ]<br> -                                 | 26 | $\vdash$ |                 | 82       | ⊦           | ,                           |  |
| Signature   Specification    Signature   Signature   Specification    Signature   Specification    Signature   Specification    Signature   Specification    Signature   Signature   Specification    Signature    | 48 46                                   | 27 | H        |                 | 8        | ⊢           |                             |  |
| Signat Name   Specification     23   8   6   2   2   2   2   2   2   2   2   2   |   | 28 | -        |                 | 84       | H           |                             |  |
| Signate Name (Specification)   32  |   | 31 | H        |                 | 85       | H           | ,                           |  |
| Signature   Stockholdmont    |   | 32 | H        |                 | 88       | L           |                             | 98 88 78 68 58   |
| Signature   Sign |   | 33 | -        | ٠               | 87       | -           | ,                           |  |
| 10   10   10   10   10   10   10   10  | SB                                      | 8  | ┝        |                 | 8        | ╁           |                             |  |
| 10   10   10   10   10   10   10   10  | M                                       | 35 | H        |                 | 96       | T           | ,                           | Color Of   |
| Sign    | 9                                       | 98 | Г        | -               | <u>8</u> | Т           |                             | Wire   |
| Signate Name   Specification   Signate Name   Signate Name   Specification   Signate Name   Specification   Signate Name   Specification   Signate Name   | BR -                                    | 37 | _        |                 | 92       | L           |                             |  |
| Fig. 10   Fig. |   | 38 | ┝        |                 | 88       | H           | ,                           | H  |
| Final Control Contro |   | 39 | H        | -               | 94       | H           |                             | H  |
| 1   1   1   1   1   1   1   1   1   1  |   | 41 | H        | -               | 95       | Н           |                             | L  |
| Find both teacher   45   W   With teacher   45   W   W   With teacher   45   W   W   With teacher   45   W   W   W   W   W   W   W   W   W   |   | 42 | Н        | -               | 96       | L           | -                           | Н  |
| WINE TO WINE   49   L   100   L    |   | 43 | Н        |                 | 97       | ď           |                             | Н  |
| 100   P  | adiw OT adiwi                           | 45 | Н        | -               | 86       | Н           | -                           | Н  |
| THEORY CSS G-TMA   | $\neg$                                  | 49 | ٦        |                 | 66       | ٦           |                             |  |
| Signal Name   Specification    25  | $\neg$                                  | 20 | 4        |                 | 100      | 4           |                             |  |
| Signal Name   Specification   Secretarian   Secretarian  |   | 51 | -        |                 |          |             |                             |  |
| 1  | N   N   N   N   N   N   N   N   N   N   | 54 | $\dashv$ |                 | _        |             |                             |  |
| Signal Name   Specification   Specification   Type   NSDETWANZ   Signal Name   Specification   Type   NSDETWANZ   Type   Terminal Color Of   Type   | - F                                     | 57 | H        |                 | Conne    | ctor No.    | M1                          |  |
| Signal Name (Specification)   65    Carrector Type   NSOGFW-M2   Carrector Type   Carrector Type  | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 29 | +        |                 | Conne    | ctor Name   |                             |  |
| Life   |   | 60 | +        |                 | June     | Cart Total  |                             | 4  |
| Signal Name   Specification    See   See |   | 8  | ╀        |                 | 3        | 1 1 1       | NOOD WINE                   | THE PARTY NAMED IN COLUMN TO SERVICE AND SERVICE ASSESSMENT OF THE PARTY NAMED IN COLUMN TO SERVICE ASSESSME |
| Signal Name (Specification)         64         B         Page 1         Page 1         Page 1         Page 1         Page 1         Page 2         Page 2         Page 3  |   | 63 | ╁        |                 | Œ        | _           |                             | H.S.   |
| Signal Name   Specification  | :                                       | 98 | ╁        |                 | 手        | E           |                             |  |
| Signal Name   Specification   Sign | Signal Name                             | 65 | ┝        |                 | 7        | 'n          |                             | 10¢ 9C 7C  |
| 67 SHELD   67 SHELD   1   1   1   1   1   1   1   1   1  |   | 99 |          |                 |          |             | 70 60 50                    |  |
| Feminal Coor Of I   Femi | - M                                     | 29 | Г        | -               |          |             | 50 50                       |  |
| Columbia   Columbia  |   | 99 | Υ        |                 |          |             | ]                           | Color Of   |
| 170 W   170 W   170 Kb   170 | GR -                                    | 69 | H        |                 |          |             |                             | Wire   |
| 71 R   R   R   R   R   R   R   R   R   R   | GR -                                    | 70 | -        |                 | Termir   | nal Color O |                             | 10C L  |
| 72         Y         T/2         Y         T/2         P         T/2         P         T/2         BG         T/2         BG         T/2         BG         T/2         BG         R         T/2         B         B         R         T/2         B   | · -                                     | 7  |          |                 | ģ        | _           | Signal Name [Specification] |  |
| 73   B   .   |   | 72 | H        | -               | 14       | H           |                             | BG   |
| 74   ER   -   -  | BG -                                    | 73 | H        | -               | ZA       | _           |                             | L  |
| 74   L   - Winth LCC    4A   P   - Ffer push button  9C  | SB -                                    | 74 | H        | - [With ICC]    | 3A       | _           |                             | H  |
| 75 G - With ICC  54 R R   75 W - Without ICC  55 V   75 W - Without ICC  64 Y   76 Y   76 Y   76 Y   76 Y   77 R   78   78   78   78   78   78   | BG -                                    | 74 | 7        | - [Without ICC] | 44       | L           | - [For push button]         | H  |
| 75 W - !Without ICC  5A V   1  |   | 75 | Н        | - [With ICC]    | 4A       | L           | - [For key slot]            |  |
| 76 W - [With ICC] 6A Y 7 7A R  |   | 75 | Н        | - [Without ICC] | 5A       | Н           |                             |  |
| 76 Y - [Without ICC] 7A R  |   | 9/ | H        | - [With ICC]    | 99       | ٨           | -                           |  |
|  | ^                                       | 9/ | L        | - [Without ICC] | 7A       | H           |                             |  |

JRLWD2377GB

| Connector No. M4                       |  |                                       | ŀ                    |   | Ľ       | -           |                 |
|--|--|---------------------------------------|----------------------|---|---------|-------------|-----------------|
| ALL MINDE TO WIDE                      | Connector No.  | M5                                    | +                    |   | 21      | <b>-</b>  ; |                 |
| CTOT INSITIE IVINE IO WINE             | Connector Name   | WIRE TO WIRE                          | 38 P                 |   | 3 2     | ≥ 0         |                 |
| Connector Type TH32FW-NH               | Connector Type   | TH40MW-CS15                           | Н                    |   | 24      | - H         |                 |
|  | þ  |                                       | +                    | 1   | 25      | > :         | 1               |
|  | THE THE PERSON NAMED IN COLUMN TO PERSON NAM |                                       | 42 K                 |   | 26      | > ୯         | , ,             |
|  | H.S.   | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15   | ╀                    |   | 28      | 0           |                 |
| 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 |  | W   1   1   1   1   1   1   1   1   1 | 9                    |   | 31      | _           |                 |
|  |  |                                       | SB                   | <ul> <li>[With automatic drive positioner]</li> </ul> | 32      | O           |                 |
|  |  |                                       | >                    | [Without automatic drive positioner]                  | 33      | В           |                 |
|  |  |                                       | +                    | '   | \$ 1    | +           |                 |
| Signal Name [Specification]            | l erminal Color Of   | Signal Name [Specification]           | +                    |   | 32      | Т           |                 |
|  | -1   |                                       | +                    |   | 8       | 7           | ,               |
| - 91                                   | ~  |                                       | > 2                  |   | 3       | > ;         |                 |
| 2 SB -                                 | 2 B  |                                       | 4                    |   | 88      | +           |                 |
| 3 Y -                                  | 3 BR   | -                                     | 55 SB                |   | 39      | 4           | -               |
| 4 R -                                  |  |                                       |                      |   | 4       | _           |                 |
| 5 W                                    |  |                                       |                      |   | 45      | _           | -               |
| - 9                                    | 9  |                                       | Connector No. M6     |   | 43      |             |                 |
| - 91 2                                 | _  |                                       |                      | L   | 45      | H           |                 |
| 8                                      | H  |                                       | Connector Name WIRE  | WIRE IO WIRE  | 44      | L           |                 |
| ╀                                      | ł  |                                       | Connector Type TH808 | THROMW-CS16-TM1                                       | 2       | ╀           |                 |
|  | , ;  |                                       | ٦.                   |   | 3 2     | 1           |                 |
| +                                      | +  |                                       | ą                    |   | ō ;     | +           |                 |
| +                                      | +  |                                       | 子ラ                   | 2               | ž,      | 4           |                 |
|  |  | -                                     | Ę                    | 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0               | 22      | 9           | -               |
| 13 SHIELD -                            | 13<br>B  |                                       | ė.                   | S   | 29      |             |                 |
| Γ                                      | ŀ  |                                       |                      | S S S S S S S S S S S S S S S S S S S                 | 9       | Ł           |                 |
| ╀                                      | - 1  |                                       |                      | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                 | 3 2     | +           |                 |
| +                                      | +  |                                       |                      | B B B B B B B B B B B B B B B B B B B                 | ا و     | י פי        |                 |
| 16 W                                   | $\dashv$   |                                       |                      | N S   | 62      | 4           |                 |
| 21 6                                   | 17 B   |                                       |                      |   | 63      |             |                 |
| Г                                      | ŀ  |                                       | Terminal Color Of    |   | ě       | Ł           |                 |
| - 9 27                                 | 2 5  |                                       |                      | Signal Name [Specification]                           | 5 8     | 0 3         |                 |
| Т                                      | +  |                                       | +                    |   | eg<br>Q | 4           |                 |
|  | 20 L   |                                       | 1<br>W               |   | 99      | ď           |                 |
| 25 R                                   | 21 LG  |                                       | 2<br>R               |   | 19      | SHIELD      |                 |
| H                                      | - 22   |                                       | er er                |   | 89      | >           |                 |
| $^{+}$                                 | 8  |                                       | 0 0                  |   | 9       | Ŧ           |                 |
| +                                      | 4  |                                       |                      |   | B       | +           |                 |
| B -                                    | 24 Y   |                                       | 5 G                  | -   | 70      | PT          | -               |
| - M                                    | 25 GR  |                                       | > 8                  |   | 71      | 57          |                 |
|  | ╀  |                                       | ╀                    |   | ۶       | >           |                 |
| SMELD :                                | +  |                                       | +                    |   | 7)      | -           |                 |
| <b>&gt;</b>                            | 27 W   |                                       | 10<br>R              |   | 73      | SB          | ,               |
|  | ď,   |                                       | Ͱ                    |   | 74      | BB.         | - IWith ICCI    |
|  | T  |                                       |                      |   | ř       | <i>i</i> -  | (OC) +:-1000    |
|  | Z9 Y   |                                       | +                    | 1   | 4       | _           | - [without ICC] |
|  | _  |                                       | -                    |   | 75      | 9           |                 |
|  | 31<br>R  |                                       | 4t<br>R              |   | 9/      | GR          | - [Without ICC] |
|  | H  |                                       | H                    |   | 76      | ×           | - DWith ICC1    |
|  | ╀  |                                       | +                    |   |         | : (         | formus] -       |
|  | _  |                                       | +                    |   | `       | -           | - [without ICC] |
|  | 34   |                                       | 17 SB                |   | 77      | œ           | - [With ICC]    |
|  | ŀ  |                                       | Ͱ                    |   | 78      | -           | - DWith ICCI    |
|  | +  |                                       | > =                  |   | 2 1     | ,           | [Solution] -    |
|  | 99<br>98   |                                       | ┨                    |   | 78      | œ           | - [Without ICC] |

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|              | Connector No. M29 | Connector Name IWARNING SYSTEMS SWITCH | _           | Connector Type TK08FGY | 4      |        |      |      | 231567      | ر<br>ب           |                |         | Terminal Color Of Signal Nama (Specification) |        | 2 SB - | 3 W      | 4 B -    | +      | 9<br>9 | - · · · · · · · · · · · · · · · · · · · |          |          | Connector No. M33 | Coppositor Name COMBINATION SIMITOH |                  | Connector Type TH16FW-NH      | 4  | <b>                                      </b> |                               | 1 2 3 4 5 6            | 7 8 9 10 11 12 13 14                    |   |           | Terminal Color Of Signal Name (Secontinal | No. Wire Signal Marine (Specification) | 1 P FR WASHER(-) | 2 SB OUTPUT 4 | FRW  | 4 G IGN                                    | 5 L OUTPUT 3 | 6 B GROUND |         | 8 BG OUTPUT 5 | 9 Y INPUT 2 | 10 R INPUT 4 | PT   | Д       | BR       | 14 G OUTPUT 2 |
|--------------|-------------------|--|-------------|------------------------|--------|--------|------|------|-------------|------------------|----------------|---------|---|--------|--------|----------|----------|--------|--------|---|----------|----------|-------------------|-------------------------------------|------------------|-------------------------------|----|---|-------------------------------|------------------------|---|---|-----------|---|--|------------------|---------------|------|--|--------------|------------|---------|---------------|-------------|--------------|------|---------|----------|---------------|
|              | $\dashv$          | 93 BR -                                | - ^ 76      | 95 G -                 | - ≻ 96 | - M 86 | 99 R |      |             | Connector No. M9 | Connector Name |         | Connector Type 24335_C9900                    | 4      |        | ٥        |          | 112    | ]      |   |          | <u>a</u> | 0                 | 1 R                                 | 2 W -            |                               |    | Connector No. M19                             | Connector Name VDC OFF SWITCH | Connector Type TK06FGV | ٦.                                      |   |           |   | 1 0 0 1                                | 1 7 6 4          |               |      | D let                                      | No. Wire     | 1 LG -     | 2 B -   | 3 R           | 4 W         |              |      |         |          |               |
|              | $\dashv$          |  | 21 SHIELD - | 22 Y -                 | 24 V - | 27 B - | 28 W | 29 R | 30 SHIELD - | 31 L -           | Н              | 33 SB - | 34 L -  | 35 P - | 36 L   | $\dashv$ | 38 BR    | 39 ∀   | +      | $\dashv$                                | $\dashv$ | 47 SB -  | Н                 | 50 R                                | - d 09           | 7                             | σ̈ | +   | 64 G                          | T                      | ł                                       | 57 89                                   | 69 SHIELD | - M 02                                    | 73 G -                                 | 74 R -           | $\dashv$      | 76 W | 77 B -                                     | 78 P         | 79 GR -    | 83 BG - | - FI S8       | 86 R -      | 87 Y -       | -    | 89 BR - | $\dashv$ | 91 G          |
| ILLUMINATION | W                 | 79 Y - [With ICC]                      | 80 SB -     | _                      | Н      | 83 V   | 84 G | T 98 | 86 P -      | Н                | 89 GR -        | S       | 91 W -  | Н      |        | $\dashv$ | $\dashv$ | - M 96 | ┪      | 98 SHIELD -                             | - ^ 66   | 100 SB - |                   |                                     | Connector No. M7 | Connector Name   WIRE TO WIRE |    | Connector Type TH80MW-CS16-TM4                |                               | # 00 m                 | S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | N 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |           | 6 ×                                       |  | la               | Wire          | 4    | 3 W - [Without automatic drive positioner] |              | 6 BG -     | - M 2   | 8 B -         | 12 SB -     | 4            | 14 Y | 15 G -  | $\dashv$ | 18 SB -       |

JRLWD2379GB

| B B × < × ≺ B B B  | ST   SE   EVITER RECENTLY SIGNAL   |  |
|--|--|--|
| Corrector No. M60 Corrector Name PUSHBUTTON IGNITION SWITCH Corrector Type TK08FBR                   | Ferminal Color Of   Signal Name [Specification]     1  |  |
| Corrector No. MA1  Corrector Name WIRE TO WIRE  Corrector Type MOSMW-LC  H.S.                        | Terminal Color Of No. Signal Name (Specification)  1 W V 2 N V 3 R V Corrector Name WIRE TO WIRE  Corrector Type MicsPiv.LC  Terminal Color Of Name  1 W Winc  1 W Winc  2 V V 3 R N  1 W Winc  1 W Winc  2 V V 3 R N  1 W Winc  1 W Winc  1 W Winc  2 V V  3 R R N  1 W Winc  1 W Winc  1 W Winc  1 W Winc  2 V V  3 R R N  1 W Winc  1 W Winc  1 W Winc  2 V V  3 R R N  1 W Winc  1 W Winc  1 W Winc  2 W Winc  3 R R N  1 W Winc  4 Signal Name (Specification)  |  |
| ILLUMINATION Corrector None Corrector Name Corrector Type TKOSFY-EX-TV  LS.  Expression 128 28 38 30 | Terminal Color Of   Signal Name   Specification    No. Wire   Signal N |  |

JRLWD2380GB

Revision: 2013 December INL-51 2013 EX

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| - 1 | Connector No. M106          | Connector Name WIRE TO WIRE   | Connector Type NH10MW-CS10 | 1   | S C L   | t o    | 9 10 11 12 13                                   | 9 1 1 1 2                               | ᆀ                           | [                  | No.                                  | 1 0                             | +) 2 SHIELD -    | +   | 4 W   | 7 BR | - × 8              |                                     | +   |                                    | ╀              | + | 14 Y - [Without NAVI]              | SHIELD                           | 16 BR - [Without NAVI] 16 G - [With NAVI] | В                 | ation]  | Connector No. M118       | Connector Name BCM (BODY CONTROL MODULE) | Connector Type M03FB-LC | 4                |      | <u> </u>   |                                       | 3                 |    |          |                               |   |
|-----|-----------------------------|---|----------------------------|-----|---|--------|---|---|-----------------------------|--------------------|--------------------------------------|---------------------------------|------------------|-----|---|------|--------------------|-------------------------------------|-----|------------------------------------|----------------|---|------------------------------------|----------------------------------|---|-------------------|---|--------------------------|--|-------------------------|------------------|------|--|---------------------------------------|-------------------|----|----------|-------------------------------|---|
| - 1 | Connector No. M74           | Connector Name CLOCK  | Connector Type TH04FW-NH   | 4   |   | SET TO | 1234  |   |                             | Toursiand Color Of | No. Wire Signal Name [Specification] | 1 B ILLUMINATION (-)            | 2 R ILLU         | 9 x | 4 Y BAI   |      | Connector No. M102 | Connector Name GLOVE BOX LAMP       | Т   | Connector Type A02FW               | <b>1</b>       | K |                                    | 1 2                              |   |                   | Terminal Color Of Signal Name [Specification] | 1 R                      | 2 B -                                    |                         |                  |      | T  | T                                     | 1                 |    |          |                               |   |
|     | 46 BG SUNLOAD SENSOR SIGNAL | 47 G EXAMUST GAS / CUTSIDE ODOR DETECTING SENSOR SIGNAL 53 G IGNITTION POWER SUPPLY | >                          | B . | 56 L CANH<br>57 W BRAKE FLUID LEVEL SWITCH SIGNAL | : K    | GR  |   | 61 BR AMBIENT SENSOR GROUND | 93 c               | 65 BG ECV SIGNAL                     | ٦                               | R EACH DOOR N    | 8 4 | 72 P CAN-L  |      | Connector No. M72  | Connector Name MULTIFUNCTION SWITCH | - 1 | Connector Type   TH16FW-NH         | <b>1</b>       |   |                                    | 4 6 8 14 16                      | 135 9                                     |                   | Terminal Color Of Signal Name [Specification] | 1 B GROUND               | 3 V ACC                                  | <b>□</b>                | 6 SB AV COMM (H) | LG A | +  | 14 Y DISK EJECT SIGNAL 16 G HAZARD ON | -<br>>            |    |          |                               |   |
| ≰Γ  | Connector No. M66           | Connector Name UNIFIED METER AND A/C AMP.   | Connector Type TH40FW-NH   | Q.  |   | H.S.   | 25 20 20 21 21 22 22 22 22 22 22 22 22 22 22 22 | 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |                             | Toursiand Colos Of | No. Wire Signal Name [Specification] | 5 L MANUAL MODE SHIFT UP SIGNAL | GR COMMUNICATION | _ 6 | 9 SB SEATBELT BUCKLE SWITCH SKINAL (DRIVER SIDE) 10 W MANITAL MODE SIGNAL | : O  | BR CON             | L IONON                             | >   | 25 V MANUAL MODE SHIFT DOWN SIGNAL | R VEHICLE SPEE | > | 34 Y COMMUNICATION SIGNAL (AMPLCD) | 38 P BLOWER MOTOR CONTROL SIGNAL |   | Connector No. M67 | Connector Name UNIFIED METER AND A/C AMP.     | Connector Type TH32FW-NH | <b>1</b>                                 | AHA                     | /                | 88 8 | 57 (38 (58 (80 (61 (62 (63 (66 (10 (10 (10 (10 (10 (10 (10 (10 (10 (10 |                                       | Terminal Color Of | 0) | V ACC PO | 42 Y FUEL LEVEL SENSOR SIGNAL | _ |

JRLWD2381GB

|  | Connector Type NS03FW.CS  | H.S.   | Terminal Coor Of Number   Signal Name   Specification   Number   Number |
|--|---|--|--|
|  | Connector Name BCM (BODY CON IROL MODULE)  Connector Type TH40FG-NH | \$ 1   | Temminal Color Of   Signal Name [Specification]     No.   Wire   Signal Name [Specification]     113   P   |
|  | Corrector Name BCM (BODY CONINC) MODULE) Corrector Type TH40FB.NH   | U   U   U   U   U   U   U   U   U   U  | Terminal Coder Off   Signal Name [Specification]     74   SB   PASSENGER DOOR ANT-     75   GR   PASSENGER DOOR ANT-     76   V   DRIVER DOOR ANT-     77   LG   DRIVER DOOR ANT-     78   V   ROOM ANT-     80   GR   NATS ANT AMP-     81   W   NATS ANT AMP-     82   R   ROOM ANT AMP-     83   V   COMBIS SW INAUT 3     93   V   COMBIS SW INAUT 3     94   V   COMBIS SW INAUT 3     95   L   CANH  |
| ILLUMINATION Terminal Color Of Signal Name [Specification] | 1111  | Connector No. M119 Connector Name BCM (BODY CONTROL MODULE) Connector Type NS16FW-CS | <b>1</b>   |

JRLWD2382GB

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Revision: 2013 December INL-53 2013 EX

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|---|---|---|--|
| Connector No. Mr137                           | W **  | Connector No. M176                              | Connector No. M178                                 |
| Connector Name A/T SHIFT SELECTOR             | 15 Y  | Connector Name SNOW MODE SWITCH                 | Connector Name HEATED SEAT SWITCH (PASSENGER SIDE) |
| Connector Type TH12FW-NH                      | $\perp$   | Connector Type TK08FW                           | Connector Type TK08FBR                             |
| ģ   | Н   | ά   | ά  |
| 医   | +   | 医   |  |
| HS  | 20 K  | H.S.  | H.S.   |
| 1 2 3 4 5                                     |   | 7   | 4 3 2 1  |
| 7 8 9 10 11                                   | Compector No. M174                                | 71  |  |
| -   | CONTROL MARINE TO VALLA TALLON SAVILO I (EL )     | -   |  |
| Terminal Color Of Signal Name [Specification] | Connector Type TK04FW                             | Terminal Color Of Signal Name [Specification]   | Terminal Color Of Signal Name [Specification]      |
| _   |   | ╈   | ╈  |
| Н   | <u> </u>  | 2 B -   | Н  |
| 3 L   | <u>L</u>  | +   | 3 R  |
| +   | 4 3 2 1   | . D. S.   |  |
| 2000  |   | 90 0  | M M M  |
| H   |   |   | 1  |
| H   | 夏   | Connector No. M177                              |  |
| Н   | No. Wire Signal Name [Specimoation]               | Connector Name HEATED SEAT SWITCH (DRIVER SIDE) | Connector No. M187                                 |
| 11 R -  | +   | (1000)  | Connector Name IBA OFF SWITCH                      |
|   | 2 BR -  | Connector Type TK10FW                           | _  |
| Connector No. M170                            | ╁   |   |  |
| و ا   |   |   | Œ  |
|   |   | 9   |  |
| Connector Type TH24FW-NH                      | Connector No. M175                                | 4 3 2 1   |  |
|   | Connector Name POWER RETURN SWITCH (RH)           |   | 4 5 6 7  |
|   | Connector Type TK04FW-B                           |   |  |
|   | ą   | <u>a</u>  |  |
| 7 0 4 0 0 1                                   | THIS  | NO. Wire  | Signal Name [Specification]                        |
| 20 19 18 17 16 15 14 13                       |   | - GK  | +  |
|   | 4 3 2 1   | 3 E   | 5 BG   |
| lв  |   | Н   | Н  |
| 0   |   | $\dashv$  | 7 SB -   |
| CC (  | Teconical Cate Of                                 | - e   |  |
| 2 R   | l erminal Color Of<br>Signal Name [Specification] |   |  |
| <u>a</u>                                      | t   |   |  |
| H   | 2 1 -   |   |  |
| 7   | $\dashv$  |   |  |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \         | 4 V   |   |  |
| ╀   |   |   |  |
| Н   |   |   |  |

JRLWD2383GB

| Connection Mb MO00 | Τ              | Connector Name COMBINATION SWITCH (SPIRAL CABLE) | Connector Type TK08FGY    | á | 医   |                              | 27 77 27 27 27 27 27 27 27 27 27 27 27 2 | 61 h 61 h 7 h 61 h 7 |                   |        | Terminal Color Of Signal Name [Specification] | +                        | W W                       | ╀                  | 16 B  | 17 BR -   |                          | 19 P | 20 Y |                           | Γ  | Connector No. R1                      | Connector Name WIRE TO WIRE | Connector Type NH10FW-CS10                       |   |      | 5 4 3 2 1 |   | OL 11. 71                        | 18 16 15 14              |        | Signal Name (Specification) | t                                    | 2 SHIELD -                          | Н                    | 4 BR - [With automatic drive positioner] |               | 5 G                         | 7       | +          | 9 B        | +          | +                | 12 BK -              |
|--------------------|----------------|--|---------------------------|---|-----|------------------------------|--|----------------------|-------------------|--------|---|--------------------------|---------------------------|--------------------|-------|-----------|--------------------------|------|------|---------------------------|--|---------------------------------------|-----------------------------|--|---|------|-----------|---|----------------------------------|--------------------------|--------|-----------------------------|--------------------------------------|-------------------------------------|----------------------|--|---------------|-----------------------------|---------|------------|------------|------------|------------------|----------------------|
| Commonder No.      | Τ              | Connector Name SHIFT POSITION SWITCH             | Connector Type TH12FW     | á | 图   |                              | 6 7 4 3                                  | + 3                  | [ /   6hL   LL    |        | Terminal Color Of Signal Name [Specification] | +                        | N C                       |                    | 5 - P | 9 - W     | 7 - AT                   | - 6  | -    | 11 - GROUND               |  | Connection No.                        |                             | Connector Name SELECTOR LEVER POSITION INDICATOR | Connector Type XARP-09V                   | Ą    | をす        | H.S.  | 987654321                        |                          |        | Torminal Color Of           | No. Wire Signal Name [Specification] | 1 - 111                             | 2 - MT               | 3 - N                                    |               | -                           | . M     |            | ,          | 9 - GROUND |                  |                      |
| 44 CHILID CHILID   | SMIELD         | 42 W RGB SYNC<br>43 G RGB (R:RED) SIGNAL         | L                         | ۵ | > 5 | 4/ SB COMPOSITE IMAGE SIGNAL | - 8                                      | á 9                  | H                 | SHIELD | 57 SHIELD SHIELD                              |                          |                           | Connector No. M210 |       |           | Connector Type TH32FW-NH | á    | 陈    |                           | 25 May 26 May 27 | 2 2 2 2                               | 3                           |  | Terminal Color Of Street Nows (Specifical | Wire | >         | 67 G COMPOSITE IMAGE SIGNAL GND 68 P COMPOSITE IMAGE SIGNAL | SHIELD                           | 72 R MICROPHONE VCC      | R COMM | +                           |                                      | ~                                   | 9                    | 81 BG REVERSE SIGNAL                     | R VEHICLE SPE | SHELD                       | G MICRO | SHELD      | G          | 7 8        | SB               | 92 SB AV COMM (H)    |
| TION               | MIZUI          | AV CONTROL UNIT                                  | TH18FW-CS2                |   |     | _[<br>/<br>                  | 2 3 4 5 6 7 9                            | ) ;<br>F             | 11 12 13 14 15 10 |        | Signal Name [Specification]                   | CONTENDED INVOIS GIVINGS | SOUND SIGNAL PRONT LH (+) | ше                 |       | STRG SW A | ACC                      |      |      | SOUND SIGNAL FRONT RH (-) | SOUND SIGNAL REAR DOOR SPEAKER RH (+)  | SOUND SIGNAL REAR DOOR SPEAKER RH (-) | STRG SW B                   | BATTERY  | GROUND                                    |      |           | M202  | Connector Name   AV CONTROL UNIT | TH24FW-NH                |        | <u> </u>                    | 3 3 3                                | 36 37 38 39 40 41 42 43 44 45 46 47 | 48 49 50 51 52 57 58 |  |               | Signal Name [Specification] |         | SIGNAL VCC | SIGNAL GND | dH         | COMM (DISP-CONI) | KGB AREA (YS) SIGNAL |
| ILLUMINATION       | COLLECTOR INC. | Connector Name                                   | Connector Type TH18FW-CS2 | q | 医   | S                            |  |                      |                   |        | Terminal Color Of                             | +                        | ۵<br>د<br>د               | F                  | - P   | 6 P       | 7 \                      | 9    | +    | 12 W                      | +  | +                                     | 0 -<br>0 -                  | 19 7   | 20 B                                      |      | Г         | Connector No.   | Connector Name                   | Connector Type TH24FW-NH | 1      | 在方                          | H.S.                                 |                                     |                      |  |               | ē                           | +       | 36 BG      | +          | +          | 7                | 40 B                 |

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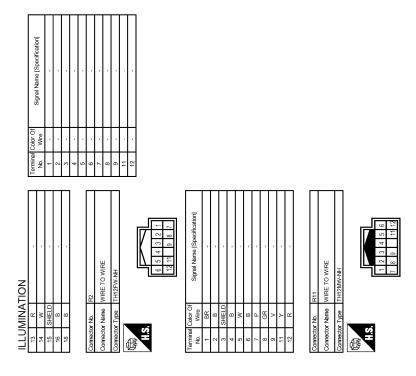
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< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

## BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000008772676

#### 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                    |
|-----------------|---|---------------------------------|
| FR WIPER HI     | Other than front wiper switch HI                    | Off                             |
| IN WIFEIXTH     | Front wiper switch HI                               | On                              |
| ED WIDER LOW    | Other than front wiper switch LO                    | Off                             |
| FR WIPER LOW    | Front wiper switch LO                               | On                              |
| FR WASHER SW    | Front washer switch OFF                             | Off                             |
| FR WASHER SW    | Front washer switch ON                              | On                              |
| FR WIPER INT    | Other than front wiper switch INT                   | Off                             |
| FR WIPER IN I   | Front wiper switch INT                              | On                              |
| FR WIPER STOP   | Front wiper is not in STOP position                 | Off                             |
| FR WIPER STOP   | Front wiper is in STOP position                     | On                              |
| INT VOLUME      | Wiper intermittent dial is in a dial position 1 - 7 | Wiper intermittent dia position |
| RR WIPER ON     | Other than rear wiper switch ON                     | Off                             |
| KK WIPEK ON     | Rear wiper switch ON                                | On                              |
| DD WIDED INT    | Other than rear wiper switch INT                    | Off                             |
| RR WIPER INT    | Rear wiper switch INT                               | On                              |
| RR WASHER SW    | Rear washer switch OFF                              | Off                             |
| KK WASHER SW    | Rear washer switch ON                               | On                              |
| RR WIPER STOP   | Rear wiper is in STOP position                      | Off                             |
| KK WIPEK STOP   | Rear wiper is not in STOP position                  | On                              |
| TUDNI CICNIAL 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                             |
| NI BEAIVI SVV   | Lighting switch HI                                  | On                              |
| HEAD LAMD CW 4  | Other than lighting switch 2ND                      | Off                             |
| HEAD LAMP SW 1  | Lighting switch 2ND                                 | On                              |
| HEAD LAMD CW 2  | Other than lighting switch 2ND                      | Off                             |
| HEAD LAMP SW 2  | Lighting switch 2ND                                 | On                              |
| DA CCINIC CIVI  | Other than lighting switch PASS                     | Off                             |
| PASSING SW      | Lighting switch PASS                                | On                              |
| AUTO LICHT CW   | Other than lighting switch AUTO                     | Off                             |
| AUTO LIGHT SW   | Lighting switch AUTO                                | On                              |

**INL-57** Revision: 2013 December 2013 EX

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| Monitor Item  | Condition   | Value/Status |
|---------------|---|--------------|
| FR FOG SW     | Front fog lamp switch OFF                           | Off          |
| FR FOG SW     | Front fog lamp switch ON                            | On           |
| RR FOG SW     | NOTE: The item is indicated, but not monitored.     | Off          |
| DOOD OW DD    | Driver door closed                                  | Off          |
| DOOR SW-DR    | Driver door opened                                  | On           |
| DOOD CW AC    | Passenger door closed                               | Off          |
| DOOR SW-AS    | Passenger door opened                               | On           |
|               | Rear RH door closed                                 | Off          |
| DOOR SW-RR    | Rear RH door opened                                 | On           |
| OOD CW DI     | Rear LH door closed                                 | Off          |
| DOOR SW-RL    | Rear LH door opened                                 | On           |
|               | Back door closed                                    | Off          |
| OOOR SW-BK    | Back door opened                                    | On           |
|               | Other than power door lock switch LOCK              | Off          |
| CDL LOCK SW   | Power door lock switch LOCK                         | On           |
| 22            | 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           |
|               | Other than driver door key cylinder UNLOCK position | Off          |
| KEY CYL UN-SW | Driver door key cylinder UNLOCK position            | On           |
| KEY CYL SW-TR | NOTE: The item is indicated, but not monitored.     | Off          |
| 14.74.DD 014/ | Hazard switch is OFF                                | Off          |
| HAZARD SW     | Hazard switch is ON                                 | On           |
| REAR DEF SW   | NOTE: The item is indicated, but not monitored.     | Off          |
| TR CANCEL SW  | NOTE: The item is indicated, but not monitored.     | Off          |
| 5D/DD 0D5N 0W | Back door opener switch OFF                         | Off          |
| TR/BD OPEN SW | While the back door opener switch is turned ON      | On           |
| TRNK/HAT MNTR | NOTE: The item is indicated, but not monitored.     | Off          |
| REVERSE SW    | NOTE: The item is indicated, but not monitored.     | Off          |
|               | LOCK button of the key is not pressed               | Off          |
| RKE-LOCK      | LOCK button of the key is pressed                   | On           |
| DIVE LINI OOK | UNLOCK button of the key is not pressed             | Off          |
| RKE-UNLOCK    | UNLOCK button of the key is pressed                 | On           |
| RKE-TR/BD     | NOTE: The item is indicated, but not monitored.     | Off          |
| DIVE DANIO    | PANIC button of the key is not pressed              | Off          |
| RKE-PANIC     | PANIC button of the key is pressed                  | On           |
|               | UNLOCK button of the key is not pressed             | Off          |
| RKE-P/W OPEN  | UNLOCK button of the key is pressed and held        | On           |

### < ECU DIAGNOSIS INFORMATION >

| Monitor Item    | Condition  | Value/Status |
|-----------------|--|--------------|
| RKE-MODE CHG    | LOCK/UNLOCK button of the key is not pressed and held simultaneously               | Off          |
|                 | LOCK/UNLOCK button of the key is pressed and held simultaneously                   | On           |
| OPTICAL SENSOR  | Bright outside of the vehicle  | Close to 5 V |
| JPTICAL SENSOR  | Dark outside of the vehicle  | Close to 0 V |
| DEO OW DD       | Driver door request switch is not pressed  | Off          |
| REQ SW -DR      | Driver door request switch is pressed  | On           |
| 250 014/ 40     | Passenger door request switch is not pressed                                       | Off          |
| REQ SW -AS      | 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          |
|                 | Back door request switch is not pressed  | Off          |
| REQ SW -BD/TR   | Back door request switch is pressed  | On           |
|                 | Push-button ignition switch (push switch) is not pressed                           | Off          |
| PUSH SW         | Push-button ignition switch (push switch) is pressed                               | On           |
| GN RLY2 -F/B    | NOTE: The item is indicated, but not monitored.                                    | Off          |
| ACC RLY -F/B    | NOTE: The item is indicated, but not monitored.                                    | Off          |
| CLUCH SW        | NOTE: The item is indicated, but not monitored.                                    | Off          |
|                 | The brake pedal is depressed when No. 7 fuse is blown                              | Off          |
| BRAKE SW 1      | The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal | On           |
|                 | The brake pedal is not depressed   | Off          |
| BRAKE SW 2      | The brake pedal is depressed   | On           |
| DETE (OANOL OW) | Selector lever in P position   | Off          |
| DETE/CANCL SW   | Selector lever in any position other than P  | On           |
| 25T DM/M 0M/    | Selector lever in any position other than P and N                                  | Off          |
| SFT PN/N SW     | Selector lever in P or N position  | On           |
| S/L -LOCK       | NOTE: The item is indicated, but not monitored.                                    | Off          |
| S/L -UNLOCK     | NOTE: The item is indicated, but not monitored.                                    | Off          |
| S/L RELAY-F/B   | NOTE: The item is indicated, but not monitored.                                    | Off          |
| INI K CEN DD    | Driver door is unlocked  | Off          |
| JNLK SEN -DR    | Driver door is locked  | On           |
|                 | Push-button ignition switch (push-switch) is not pressed                           | Off          |
| PUSH SW -IPDM   | Push-button ignition switch (push-switch) is pressed                               | On           |
| ON DIVA 5/D     | Ignition switch in OFF or ACC position   | Off          |
| GN RLY1 -F/B    | Ignition switch in ON position   | On           |
| DETE 014 :      | 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           |

**INL-59** Revision: 2013 December 2013 EX

| Monitor Item    | Condition  | Value/Status                           |
|-----------------|--|--|
| CET D. MET      | Selector lever in any position other than P  | Off                                    |
| SFT P -MET      | 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                                  |
| LINGINE 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-<br>ometer reading |
| VEH SPEED 2     | While driving  | Equivalent to speed-<br>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 (Shift position is in the P position) | Reset                                  |
|                 | Ignition switch ON   | Set                                    |
| PRMT ENG STRT   | The engine start is prohibited   | Reset                                  |
| TRIVIT ENG OTHE | The engine start is permitted  | Set                                    |
| PRMT RKE STRT   | NOTE: The item is indicated, but not monitored.  | Reset                                  |
| KEY SW -SLOT    | The key is not inserted into key slot  | Off                                    |
| NET 5W -SEOT    | The key is inserted into key slot  | On                                     |
| RKE OPE COUN1   | During the operation of the key  | Operation frequency of<br>the key      |
| RKE OPE COUN2   | NOTE: The item is indicated, but not monitored.  | _                                      |
| CONFRM ID ALL   | The key ID that the key slot receives does not accord with any key ID registered to BCM.           | Yet                                    |
| OOM NIN ID ALL  | The key ID that the key slot receives accords with any key ID registered to BCM.                   | Done                                   |
| CONFIRM ID4     | The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.    | Yet                                    |
| JOINI IRIVI ID4 | The key ID that the key slot receives accords with the fourth key ID registered to BCM.            | Done                                   |
|                 | The key ID that the key slot receives does not accord with the third key                           |  |
| CONFIRM ID3     | ID registered to BCM.  | Yet                                    |

### < ECU DIAGNOSIS INFORMATION >

| Monitor Item   | Condition   | Value/Status                     |
|----------------|---|----------------------------------|
| CONFIRM ID2    | The key ID that the key slot receives does not accord with the second key ID registered to BCM. | Yet                              |
| CONFIRM ID2    | The key ID that the key slot receives accords with the second key ID registered to BCM.         | Done                             |
| CONFIRM ID1    | The key ID that the key slot receives does not accord with the first key ID registered to BCM.  | Yet                              |
| CONFIRMIDI     | The key ID that the key slot receives accords with the first key ID registered to BCM.          | Done                             |
| TP 4           | The ID of fourth key is not registered to BCM   | Yet                              |
| TP 4           | The ID of fourth key is registered to BCM   | Done                             |
| TD 0           | The ID of third key is not registered to BCM  | Yet                              |
| TP 3           | 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                             |
| TP 1           | The ID of first key is not registered to BCM  | Yet                              |
| IFI            | 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<br>tire |
| AIR PRESS FR   | Ignition switch ON (Only when the signal from the transmitter is received)                      | Air pressure of front<br>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 DECCT EL 1  | ID of front LH tire transmitter is registered   | Done                             |
| ID REGST FL1   | ID of front LH tire transmitter is not registered   | Yet                              |
| ID REGST FR1   | ID of front RH tire transmitter is registered   | Done                             |
| ID REGGI I KI  | ID of front RH tire transmitter is not registered   | Yet                              |
| ID REGST RR1   | ID of rear RH tire transmitter is registered  | Done                             |
| ID REGGI KKI   | ID of rear RH tire transmitter is not registered  | Yet                              |
| ID REGST RL1   | ID of rear LH tire transmitter is registered  | Done                             |
| ID NEGOT KET   | ID of rear LH tire transmitter is not registered  | Yet                              |
| WARNING LAMP   | Tire pressure indicator OFF   | Off                              |
| VVAINING LAWIF | Tire pressure indicator ON  | On                               |
| RI 177ED       | Tire pressure warning alarm is not sounding   | Off                              |
| BUZZER         | Tire pressure warning alarm is sounding   | On                               |

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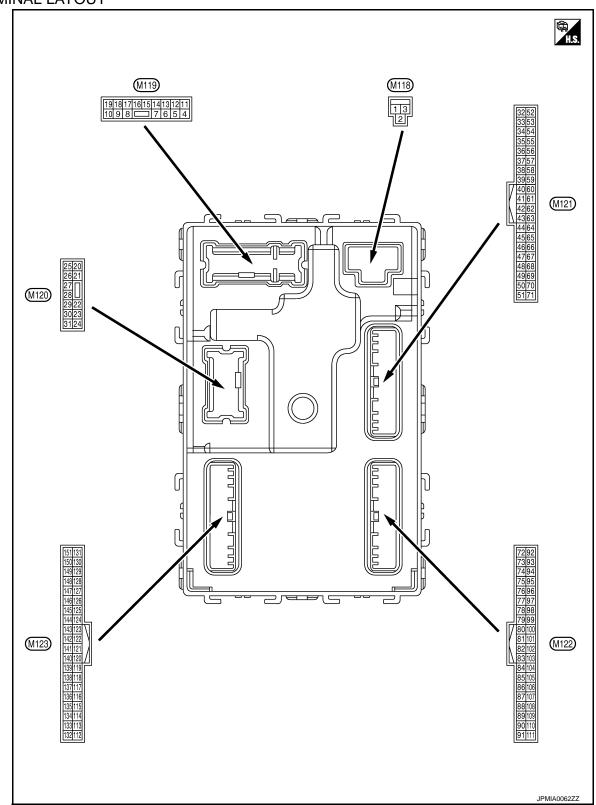
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### TERMINAL LAYOUT



PHYSICAL VALUES

| /s a      | inal No.      | Description                              |                  |                    |  | Value  |
|-----------|---------------|--|------------------|--------------------|--|--|
| (Wire     | e color)<br>– | Signal name                              | Input/<br>Output |                    | Condition  | (Approx.)  |
| 1<br>(W)  | Ground        | Battery power supply                     | Input            | Ignition switch OF | F  | Battery voltage  |
| 2<br>(W)  | Ground        | P/W power supply (BAT)                   | Output           | Ignition switch OF | F  | Battery voltage  |
| 3<br>(Y)  | Ground        | P/W power supply (RAP)                   | Output           | Ignition switch ON | I  | Battery voltage  |
| 4         |               | Interior room lamp                       |                  |                    | battery saver is activated.<br>coom lamp power supply) | 0 V  |
| 4<br>(LG) | Ground        | Interior room lamp power supply          | Output           | ed.                | battery saver is not activator room lamp power supply) | Battery voltage  |
| 5         | Ground        | Passenger door UN-                       | Output           | Passenger door     | UNLOCK (Actuator is activated)                         | Battery voltage  |
| (L)       | Ground        | LOCK                                     | Output           | 1 adderiger door   | Other than UNLOCK (Actuator is not activated)          | 0 V  |
| 7         | Craund        | Cton lawn                                | Outrout          | Cton lower         | ON   | 0 V  |
| (Y)       | Ground        | Step lamp                                | Output           | Step lamp          | OFF  | Battery voltage  |
| 8         | Ground        | All doors, fuel lid                      | Output           | All doors          | LOCK<br>(Actuator is activated)                        | Battery voltage  |
| (V)       | Giouna        | LOCK                                     | Output           | All doors          | Other than LOCK (Actuator is not activated)            | 0 V  |
| 9         | Ground        | Driver door, fuel lid                    | Output           | Driver door        | UNLOCK<br>(Actuator is activated)                      | Battery voltage  |
| (G)       | Ground        | UNLOCK                                   | Output           | Dilver door        | Other than UNLOCK (Actuator is not activated)          | 0 V  |
| 10        | Ground        | Rear RH door and rear LH door UN-        | Output           | Rear RH door       | UNLOCK<br>(Actuator is activated)                      | Battery voltage  |
| (BR)      | Ground        | LOCK                                     | Output           | and rear LH door   | Other than UNLOCK (Actuator is not activated)          | 0 V  |
| 11<br>(R) | Ground        | Battery power supply                     | Input            | Ignition switch OF | F  | Battery voltage  |
| 13<br>(B) | Ground        | Ground                                   | _                | Ignition switch ON | I  | 0 V  |
|           |               |  |                  |                    | OFF  | 0 V  |
| 14<br>(W) | Ground        | Push-button ignition switch illumination | Output           | Tail lamp          | ON   | NOTE: When the illumination brightening/dimming level is in the neutral position |
| \··/      |               | ground                                   |                  |                    | ON   | 10<br>0<br>2 ms<br>JSNIA0010GB   |
|           |               |  |                  |                    | OFF or ON  | Battery voltage  |
| 15        | Ground        | ACC indicator lamp                       | Output           | Ignition switch    |  | = allery remage  |

|            | inal No.<br>e color) | Description               |                  |                       | O a region   | Value  |  |  |  |  |
|------------|----------------------|---------------------------|------------------|-----------------------|--|--|--|--|--|--|
| +          | -                    | Signal name               | Input/<br>Output |                       | Condition  | (Approx.)  |  |  |  |  |
| 17<br>(W)  | Ground               | Turn signal RH<br>(Front) | Output           | Ignition switch<br>ON | Turn signal switch OFF  Turn signal switch RH                      | 0 V  |  |  |  |  |
|            |                      |                           |                  |                       | Turn signal switch OFF   | PKID0926E<br>6.5 V<br>0 V                              |  |  |  |  |
| 18<br>(BG) | Ground               | Turn signal LH<br>(Front) | Output           | Ignition switch<br>ON | Turn signal switch LH  | (V)<br>15<br>10<br>5<br>0<br>1 s<br>PKID0926E<br>6.5 V |  |  |  |  |
| 19         | Ground               | Room lamp timer           | Output           | Interior room         | OFF  | Battery voltage  |  |  |  |  |
| (V)        | Cround               | control                   | Output           | lamp                  | ON   | 0 V  |  |  |  |  |
| 20<br>(V)  | Ground               | Turn signal RH<br>(Rear)  | Output           | Ignition switch<br>ON | Turn signal switch OFF  Turn signal switch RH                      | 0 V  (V) 15 10 1   S   PKID0926E  6.5 V                |  |  |  |  |
| 23         | Ground               | Back door open            | Output           | Back door             | OPEN<br>(Back door opener actuator<br>is activated)                | Battery voltage  |  |  |  |  |
| (G)        | Glound               | Back door open            | Odiput           | Back door             | Other than OPEN<br>(Back door opener actuator<br>is not activated) | 0 V  |  |  |  |  |
|            |                      |                           |                  |                       | Turn signal switch OFF   | 0 V  |  |  |  |  |
| 25<br>(G)  | Ground               | Turn signal LH (Rear)     | Output           | Ignition switch<br>ON | Turn signal switch LH  | (V)<br>15<br>10<br>5<br>0<br>1 s                       |  |  |  |  |
| 26         |                      |                           |                  |                       | OFF (Stopped)  | 6.5 V<br>0 V   |  |  |  |  |
| (G)        | Ground               | Rear wiper                | Output           | Rear wiper            | ON (Operated)  | Battery voltage  |  |  |  |  |

|           | inal No.      | Description  |  |   |   | Value   | Δ      |
|-----------|---------------|--|--|---|---|---|--------|
| (Wire     | e color)<br>– | Signal name  | Input/<br>Output                                     |   | Condition   | (Approx.)                                       | Α      |
| 34        | Canada        | Luggage room anten-  | Output   | Ignition switch   | When Intelligent Key is in the passenger compartment      | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0062GB | B<br>C |
| (SB)      | Ground        | na (–)   | Output   | OFF   | When Intelligent Key is not in the passenger compartment  | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0063GB | E<br>F |
| 35        | Ground        | Luggage room antenna (+)  Output  Ignition switch OFF  When In | When Intelligent Key is in the passenger compartment | (V) 15 10 5 0 1   S   JMKIA0062GB                         | G<br>H  |   |        |
| (V)       | Glouliu       |  | Output   | OFF   | When Intelligent Key is not in the passenger compartment  | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0063GB | J<br>K |
| 38<br>(B) | Ground        | Back door antenna (–   |  | When the back door opener re-                             | When Intelligent Key is in the antenna detection area     | (V) 15 10 5 0 JMKIA0062GB                       | M      |
|           | Ground        | )  | Output   | quest switch is<br>operated with ig-<br>nition switch OFF | When Intelligent Key is not in the antenna detection area | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0063GB | O<br>P |

|            | inal No.<br>e color) | Description                               |                  | 0   |   | Value  |  |
|------------|----------------------|---|------------------|---|---|--|--|
| +          | e color)             | Signal name                               | Input/<br>Output | Condition   |   | (Approx.)  |  |
| 39         | Ground               | . Back door antenna                       |                  | When the back<br>door opener re-<br>quest switch is<br>operated with ig-<br>nition switch OFF | When Intelligent Key is in the antenna detection area     | (V) 15 10 5 0 JMKIA0062GB                                  |  |
| (W)        | Ciodila              | (+)                                       | Output           |   | When Intelligent Key is not in the antenna detection area | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0063GB            |  |
| 47         | Ground               | Ignition relay (IPDM<br>E/R) control      | Output           | Ignition switch   | OFF or ACC  | Battery voltage  |  |
| (Y)        |                      | Starter relay control                     | Output           | Ignition switch<br>ON   | ON When selector lever is in P or N position              | 0 V  Battery voltage                                       |  |
| 52<br>(SB) | Ground               |   |                  |   | When selector lever is not in P or N position             | 0 V  |  |
| 60<br>(BR) | Ground               | Push-button ignition switch (Push switch) | Input            | Push-button ignition switch (push switch)   | Pressed  Not pressed                                      | 0 V<br>Battery voltage                                     |  |
|            |                      |   |                  | ,   | ON (Pressed)  | 0 V  |  |
| 61<br>(W)  | Ground               | Back door opener request switch           | Input            | Back door opener request switch   | OFF (Not pressed)   | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0016GB<br>1.0 V |  |
| 64         |                      | Intelligent Key warn-                     | <b>0</b>         | Intelligent Key   | Sounding  | 0 V  |  |
| (V)        | Ground               | ing buzzer (Engine room)                  | Output           | warning buzzer<br>(Engine room)   | Not sounding  | Battery voltage  |  |
| 65<br>(BG) | Ground               | Rear wiper stop position                  | Input            | Rear wiper  | In stop position  | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0016GB          |  |
|            |                      |   |                  |   | Not in stop position                                      | 1.0 V<br>0 V   |  |
|            |                      |   |                  | 1   | III GLOP POOLIGIT   | ~ v  |  |

### < ECU DIAGNOSIS INFORMATION >

|            | inal No.<br>e color) | Description                |                  |                            |                  | Value   |
|------------|----------------------|----------------------------|------------------|----------------------------|------------------|---|
| +          | e color)             | Signal name                | Input/<br>Output |                            | Condition        | (Approx.)   |
| 66<br>(R)  | Ground               | Back door switch           | Input            | Back door switch           | OFF (Door close) | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0011GB           |
|            |                      |                            |                  |                            | ON (Door open)   | 0 V   |
|            |                      |                            |                  |                            | Pressed          | 0 V   |
| 67<br>(GR) | Ground               | Back door opener<br>switch | Input            | Back door opener<br>switch | Not pressed      | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0011GB<br>11.8 V |
| 68<br>(BR) | Ground               | Rear RH door switch        | Input            | Rear RH door<br>switch     | OFF (Door close) | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>10 ms<br>11.8 V       |
|            |                      |                            |                  |                            | ON (Door open)   | 0 V   |
| 69<br>(R)  | Ground               | Rear LH door switch        | Input            | Rear LH door<br>switch     | OFF (Door close) | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0011GB           |
|            |                      |                            |                  |                            | ON (Door open)   | 0 V   |

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|      | ninal No.<br>e color) | Description                | Г   |   | Consultátions   | Value   |  |
|------|-----------------------|----------------------------|---|---|---|---|--|
| +    | _                     | Signal name                | Input/<br>Output                            |   | Condition   | (Approx.)                                       |  |
| 74   |                       | Passenger door antenna (-) | Output                                      | When the passenger door request switch is operated with ignition switch OFF | When Intelligent Key is in the antenna detection area     | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0062GB |  |
| (SB) | Ground                |                            |   |   | When Intelligent Key is not in the antenna detection area | (V) 15 10 1                                     |  |
| 75   | Ground                | Passenger door antenna (+) | Output                                      | When the passenger door request switch is operated with ignition switch OFF | When Intelligent Key is in the antenna detection area     | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0062GB |  |
| (GR) |                       |                            |   |   | When Intelligent Key is not in the antenna detection area | (V)<br>15<br>10<br>5<br>0<br>JMKIA0063GB        |  |
| 76   | Ground                | Driver door antenna        | Output                                      | When the driver door request  | When Intelligent Key is in the antenna detection area     | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0062GB |  |
| (V)  | Ground                | round (-) Output           | switch is operated with ignition switch OFF | When Intelligent Key is not in the antenna detection area                   | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0063GB           |   |  |

|      | inal No. | Description         |                  |   |   | Value   | А           |
|------|----------|---------------------|------------------|---|---|---|-------------|
| +    | e color) | Signal name         | Input/<br>Output |   | Condition   | (Approx.)                                       | A           |
| 77   | Crowned  | Driver door antenna | Outout           | When the driver door request                | When Intelligent Key is in the antenna detection area     | (V) 15 10 5 0 1 s  JMKIA0062GB                  | B<br>C<br>D |
| (LG) | Ground   | (+)                 | Output           | switch is operated with ignition switch OFF | When Intelligent Key is not in the antenna detection area | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0063GB | E<br>F      |
| 78   | Ground   | Room antenna 1 (–)  | Output           | Ignition switch                             | When Intelligent Key is in the passenger compartment      | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0062GB | G<br>H      |
| (Y)  | Clound   | (Instrument panel)  | Culput           | ÖFF   | When Intelligent Key is not in the passenger compartment  | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0063GB | J<br>K      |
| 79   | Crowned  | Room antenna 1 (+)  | Outout           | Ignition switch                             | When Intelligent Key is in the passenger compartment      | (V)<br>15<br>10<br>5<br>0<br>1 s<br>JMKIA0062GB | M           |
| (BR) | Ground   | (Instrument panel)  | Output           | ŎFF   | When Intelligent Key is not in the passenger compartment  | (V) 15 10 5 0 JMKIA0063GB                       | O<br>P      |

|            | inal No. | Description            |                  |                  |   | Value   |
|------------|----------|------------------------|------------------|------------------|---|---|
| +          | e color) | Signal name Input/     |                  | Condition        |   | (Approx.)   |
| 80<br>(GR) | Ground   | NATS antenna amp.      | Input/<br>Output | During waiting   | Ignition switch is pressed while inserting the key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 81<br>(W)  | Ground   | NATS antenna amp.      | Input/<br>Output | During waiting   | Ignition switch is pressed while inserting the key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 82         | Ground   | Ignition relay [Fuse   | Output           | lanition switch  | OFF or ACC  | 0 V   |
| (R)        | Ground   | block (J/B)] control   | Output           | Ignition switch  | ON  | Battery voltage   |
| 92         | Ground   | Remote keyless entry   | Input/           | During waiting   |   | (V)<br>15<br>10<br>5<br>1 ms<br>JMKIA0064GB                         |
| 83<br>(Y)  |          | receiver communication | Output           | When operating e | ither button on the key   | (V)<br>15<br>10<br>5<br>0<br>1 ms<br>JMKIA0065GB                    |

### < ECU DIAGNOSIS INFORMATION >

|              | nal No. | Description                |                  |                    |   | Value  |  |
|--------------|---------|----------------------------|------------------|--------------------|---|--|--|
| (Wire color) |         | Signal name                | Input/<br>Output |                    | Condition   | (Approx.)  |  |
|              |         |                            |                  |                    | All switches OFF<br>(Wiper intermittent dial 4)   | (V)<br>15<br>10<br>5<br>0<br>2 ms<br>JPMIA0041GB |  |
|              |         |                            |                  |                    | Front fog lamp switch ON (Wiper intermittent dial 4)  | (V)<br>15<br>10<br>5<br>0                        |  |
| 87<br>(BR)   | Ground  | Combination switch INPUT 5 | Input            | Combination switch |   | 2 ms JPMIA0037GB                                 |  |
|              |         |                            |                  |                    | Rear wiper switch ON<br>(Wiper intermittent dial 4)   | (V)<br>15<br>10<br>5<br>0                        |  |
|              |         |                            |                  |                    |   |  |  |
|              |         |                            |                  |                    | Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 6  • Wiper intermittent dial 7 | (V)<br>15<br>10<br>5<br>0<br>2 ms                |  |
|              |         |                            |                  |                    |   | JPMIA0040GB<br>1.3 V                             |  |

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

|             | ninal No.<br>e color) | Description  |                  |                               | O an alitica a                  | Value   |
|-------------|-----------------------|--|------------------|-------------------------------|---------------------------------|---|
| +           | e color)              | Signal name  | Input/<br>Output |                               | Condition                       | (Approx.)   |
| 92<br>(LG)  | Ground                | Key slot illumination                              | Output           | Key slot illumina-            | OFF                             | Battery voltage  (V) 15 10 5 0                    |
| 93          |                       |  |                  |                               | ON<br>OFF or ACC                | JPMIA0015GB 6.5 V 0 V  Battery voltage            |
| (V)         | Ground                | ON indicator lamp                                  | Output           | Ignition switch               | ON                              | 0 V   |
| 94          |                       | D. Illia Iva                                       | <b>0</b>         | B 1111                        | OFF                             | Battery voltage                                   |
| (Y)         | Ground                | Puddle lamp control                                | Output           | Puddle lamp                   | ON                              | 0 V   |
| 95          | Ground                | ACC relay control                                  | Outout           | Ignition switch               | OFF                             | 0 V   |
| (BG)        | Giouna                | ACC relay control                                  | Output           | Ignition switch               | ACC or ON                       | Battery voltage                                   |
| 96<br>(GR)  | Ground                | A/T shift selector (Detention switch) power supply | Output           | _                             |                                 | Battery voltage                                   |
| 99          | Ground                | Selector lever P posi-                             | Input            | Selector lever                | P position                      | 0 V   |
| (R)         |                       | tion switch  | .l- 201          |                               | Any position other than P       | Battery voltage                                   |
| 100<br>(G)  | Ground                | Passenger door request switch                      | Input            | Passenger door request switch | ON (Pressed)  OFF (Not pressed) | 0 V  (V) 10 5 10 10 ms  JPMIA0016GB  1.0 V        |
|             |                       |  |                  |                               | ON (Pressed)                    | 0 V   |
| 101<br>(SB) | Ground                | Driver door request switch                         | Input            | Driver door request switch    | OFF (Not pressed)               | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0016GB |
| 102<br>(BG) | Ground                | Blower fan motor re-<br>lay control                | Output           | Ignition switch               | OFF or ACC                      | 1.0 V<br>0 V<br>Battery voltage                   |
| 103<br>(LG) | Ground                | Remote keyless entry<br>receiver power sup-<br>ply | Output           | Ignition switch OFI           |                                 | Battery voltage                                   |

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

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

## < ECU DIAGNOSIS INFORMATION >

|            | inal No. | Description                |                  |   |                        | Value  |
|------------|----------|----------------------------|------------------|---|------------------------|--|
| +          | e color) | Signal name                | Input/<br>Output |   | Condition              | (Approx.)  |
|            |          |                            |                  |   | All switches OFF       | (V)<br>15<br>10<br>5<br>0<br>2 ms<br>JPMIA0041GB           |
|            |          |                            |                  |   | Lighting switch PASS   | (V)<br>15<br>10<br>5<br>0<br>2 ms<br>JPMIA0037GB           |
| 109<br>(Y) | Ground   | Combination switch INPUT 2 | Input            | Combination<br>switch<br>(Wiper intermit-<br>tent dial 4) | Lighting switch 2ND    | (V)<br>15<br>10<br>5<br>0<br>2 ms<br>JPMIA0036GB<br>1.3 V  |
|            |          |                            |                  |   | Front wiper switch INT | (V)<br>15<br>10<br>5<br>0<br>2 ms<br>JPMIA0038GB<br>1.3 V  |
|            |          |                            |                  |   | Front wiper switch HI  | (V)<br>15<br>10<br>5<br>0<br>2 ms<br>JPMIA0040GB           |
|            |          |                            |                  |   | ON                     | 0 V  |
| 110<br>(G) | Ground   | Hazard switch              | Input            | Hazard switch   | OFF                    | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0012GB<br>1.1 V |

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|             | inal No.      | Description  |                  |                                    |   | V-L   |    |
|-------------|---------------|--|------------------|------------------------------------|---|---|----|
| (Wire       | e color)<br>– | Signal name  | Input/<br>Output |                                    | Condition   | Value<br>(Approx.)                                | 1  |
| 113         | 0             | Outlinday  |                  | Ignition switch                    | When bright outside of the vehicle                  | Close to 5 V                                      | ı  |
| (P)         | Ground        | Optical sensor                                       | Input            | ŎN                                 | When dark outside of the vehicle                    | Close to 0 V                                      |    |
| 116<br>(SB) | Ground        | Stop lamp switch 1                                   | Input            | _                                  |   | Battery voltage                                   | (  |
|             |               | Stop lamp switch 2                                   |                  | Stop lamp switch                   | OFF (Brake pedal is not depressed)                  | 0 V   |    |
| 118         | Ground        | (Without ICC)  | Input            | Stop lamp switch                   | ON (Brake pedal is depressed)                       | Battery voltage                                   |    |
| (P)         | Oround        | Stop lamp switch 2                                   | input            | Stop lamp switch opressed) and ICC | OFF (Brake pedal is not de-<br>brake hold relay OFF | 0 V   |    |
|             |               | (With ICC)   |                  |                                    | ON (Brake pedal is de-<br>rake hold relay ON        | Battery voltage                                   |    |
| 119<br>(SB) | Ground        | Front door lock assembly driver side (Unlock sensor) | Input            | Driver door                        | LOCK status<br>(Unlock sensor switch<br>OFF)        | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0012GB | (  |
|             |               |  |                  |                                    | UNLOCK status<br>(Unlock switch sensor ON)          | 1.1 V<br>0 V                                      |    |
| 121         | Craund        | Kay alat awitah                                      | lanut            | When the key is ir                 | serted into key slot                                | Battery voltage                                   |    |
| (BR)        | Ground        | Key slot switch                                      | Input            | When the key is n                  | ot inserted into key slot                           | 0 V   |    |
| 123         | Ground        | IGN feedback   | Input            | Ignition switch                    | OFF or ACC  | 0 V   |    |
| (W)         | Ground        | TOIN IEGUDAUK  | прис             | igililion switch                   | ON  | Battery voltage                                   |    |
| 124<br>(LG) | Ground        | Passenger door<br>switch                             | Input            | Passenger door switch              | OFF (Door close)                                    | (V)<br>15<br>10<br>5<br>0<br>JPMIA0011GB          | II |
|             |               |  |                  |                                    | ON (Door open)                                      | 0 V   |    |
| 132<br>(BR) | Ground        | Power window switch communication                    | Input/<br>Output | Ignition switch ON                 | ı   | 15<br>10<br>5<br>0                                |    |
|             |               |  |                  |                                    |   | JPMIA0013GB                                       |    |
|             |               |  |                  |                                    | · · · · · · · · · · · · · · · · · · ·               | 10.2 V  |    |

|             | inal No.<br>e color) | Description                              |                  |  | 0 10   | Value   |
|-------------|----------------------|--|------------------|--|--|---|
| +           | -                    | Signal name                              | Input/<br>Output |  | Condition                                      | (Approx.)   |
|             |                      |  |                  |  | ON (Tail lamps OFF)                            | 9.5 V   |
| 133<br>(W)  | Ground               | Push-button ignition switch illumination | Output           | Push-button ignition switch illumination | ON (Tail lamps ON)                             | NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.  (V) 15 10 5 0  JPMIA0159GB |
|             |                      |  |                  |  | OFF  | 0 V   |
| 134<br>(GR) | Ground               | LOCK indicator lamp                      | Output           | LOCK indicator<br>lamp                   | OFF<br>ON                                      | Battery voltage 0 V   |
| 137<br>(BG) | Ground               | Receiver and sensor ground               | Input            | Ignition switch ON                       |  | 0 V   |
| 138         | Ground               | Receiver and sensor                      | Output           | Ignition switch                          | OFF  | 0 V   |
| (Y)         | 0.000                | power supply                             | - Carpar         |  | ACC or ON                                      | 5.0 V   |
| 139         | Ground               | Tire pressure receiv-                    | Input/           | lgnition switch                          | Standby state                                  | (V)<br>6<br>4<br>2<br>0<br>*** 0.2s   |
| (L)         | Glound               | er communication                         | Output           | ON                                       | When receiving the signal from the transmitter | (V)<br>6<br>4<br>2<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0            |
| 140         | Ground               | Selector lever P/N                       | Input            | Selector lever                           | P or N position                                | Battery voltage   |
| (GR)        |                      | position                                 | 1 4.5            |  | Except P and N positions                       | 0 V   |
|             |                      |  |                  |  | ON   | 0 V   |
| 141<br>(G)  | Ground               | Security indicator                       | Output           | Security indicator                       | Blinking                                       | (V)<br>15<br>10<br>5<br>0<br>1 s  |
|             |                      |  |                  |  | OFF  | 11.3 V  |
|             |                      |  |                  |  | OFF  | Battery voltage   |

|            | inal No. | Description                 |                  |  |  | Value                               |
|------------|----------|-----------------------------|------------------|--|--|-------------------------------------|
| +          | e color) | Signal name                 | Input/<br>Output |  | Condition  | (Approx.)                           |
|            |          |                             |                  |  | All switches OFF   | 0 V                                 |
|            |          |                             |                  |  | Lighting switch 1ST Lighting switch HI   | (V)                                 |
| 142        |          | Combination switch          |                  | Combination switch                         | Lighting switch 2ND  | (V)<br>15<br>10                     |
| (BG)       | Ground   | OUTPUT 5                    | Output           | (Wiper intermittent dial 4)                | Turn signal switch RH  | 5 0 JPMIA0031GB                     |
|            |          |                             |                  |  | All switches OFF<br>(Wiper intermittent dial 4)  | 10.7 V<br>0 V                       |
|            |          |                             |                  |  | Front wiper switch HI (Wiper intermittent dial 4)  |                                     |
| 143        | 0        | Combination switch          | 0.4.             | Combination                                | Rear wiper switch INT (Wiper intermittent dial 4)  | (V)<br>15<br>10                     |
| (P)        | Ground   | OUTPUT 1                    | Output           | switch                                     | Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 2                                  | 5<br>0<br>2 ms                      |
|            |          |                             |                  |  | Wiper intermittent dial 2     Wiper intermittent dial 3     Wiper intermittent dial 6     Wiper intermittent dial 7                      | ЈРМIА0032GB<br>10.7 V               |
|            |          |                             |                  |  | All switches OFF (Wiper intermittent dial 4)   | 0 V                                 |
|            |          |                             |                  |  | Front washer switch ON (Wiper intermittent dial 4)   |                                     |
| 144        |          | Combination switch          |                  | Combination                                | Rear wiper switch ON (Wiper intermittent dial 4)   | (V)<br>15                           |
| (G)        | Ground   | OUTPUT 2                    | Output           | switch                                     | Rear washer switch ON (Wiper intermittent dial 4)  | 10 5 0                              |
|            |          |                             |                  |  | Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6 | 2 ms JPMIA0033GB                    |
|            |          |                             |                  |  | All switches OFF   | 0 V                                 |
|            |          |                             |                  |  | Front wiper switch INT   | (1)                                 |
|            |          |                             |                  | Combination                                | Front wiper switch LO  | (V)<br>15                           |
| 145<br>(L) | Ground   | Combination switch OUTPUT 3 | Output           | switch<br>(Wiper intermit-<br>tent dial 4) | Lighting switch AUTO   | 10<br>5<br>0<br>2 ms<br>JPMIA0034GB |
|            |          |                             |                  |  |  | 10.7 V                              |

|             | inal No. | Description        |                  |                                  |                          | Value   |
|-------------|----------|--------------------|------------------|----------------------------------|--------------------------|---|
| +           | e color) | Signal name        | Input/<br>Output |                                  | Condition                | (Approx.)   |
|             |          |                    |                  |                                  | All switches OFF         | 0 V   |
|             |          |                    |                  |                                  | Front fog lamp switch ON |   |
|             |          |                    |                  | Combination                      | Lighting switch 2ND      | (V)<br>15   |
| 146         | Ground   | Combination switch | Output           | switch                           | Lighting switch PASS     | 10  |
| (SB)        |          | OUTPUT 4           |                  | (Wiper intermit-<br>tent dial 4) | Turn signal switch LH    | 2 ms JPMIA0035G                                   |
| 150<br>(LG) | Ground   | Driver door switch | Input            | Driver door<br>switch            | OFF (Door close)         | (V)<br>15<br>10<br>5<br>0<br>10 ms<br>JPMIA0011GI |
|             |          |                    |                  |                                  | ON (Door open)           | 0 V   |
| 151         | Cround   | Rear window defog- | Output           | Rear window de-                  | Active                   | 0 V   |
| (G)         | Ground   | ger relay control  | Output           | fogger                           | Not activated            | Battery voltage                                   |

#### < ECU DIAGNOSIS INFORMATION >

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Wiring Diagram - BCM -INFOID:0000000008772677 Α For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information". В C (IC): With ICC D TA), (TB): Refer to "Connector Information" in "HOW TO READ WIRING DIAGRAMS" in "GENERAL INFORMATION". Е F ₩ KEY SLOT , M123 BCM (BODY CONTROL MODULE) (M118), (M119), (M120), (M122), Н 10A FRONT DOOR SWITCH (PASSENGER SIDE) To stop lamp K FRONT DOOR SWITCH (DRIVER SIDE) (B16) INL BCM (BODY CONTROL MODULE) M Ν

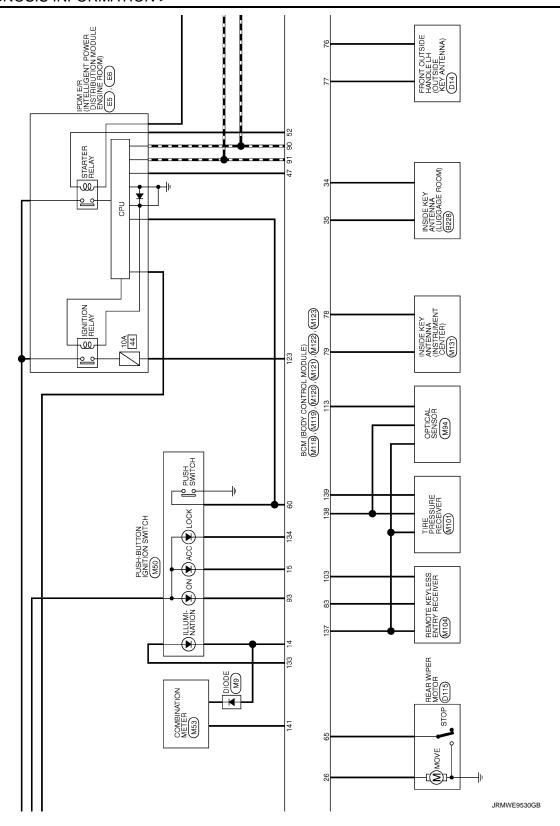
COMBINATION SWITCH

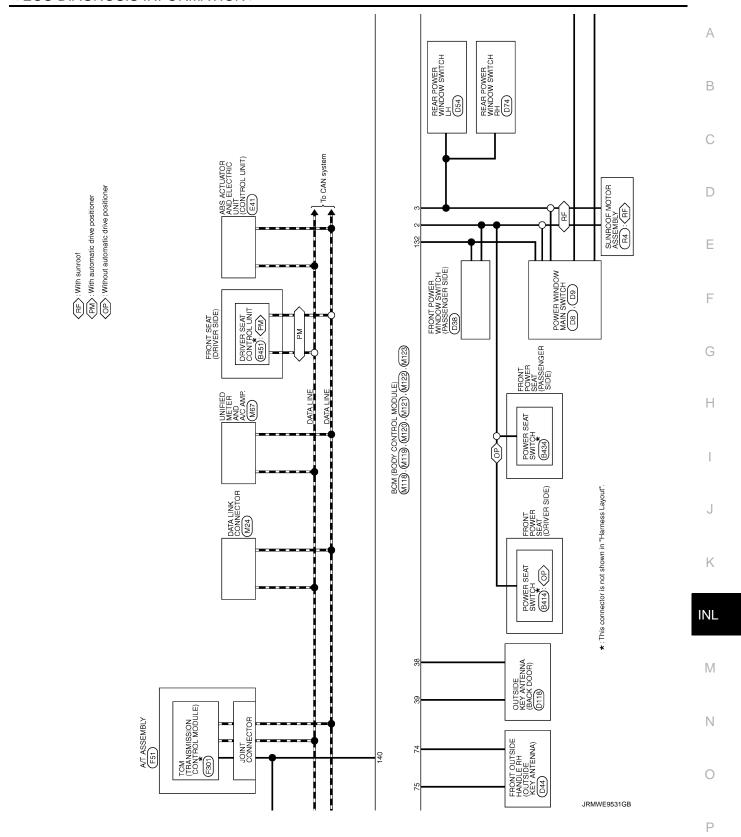
0

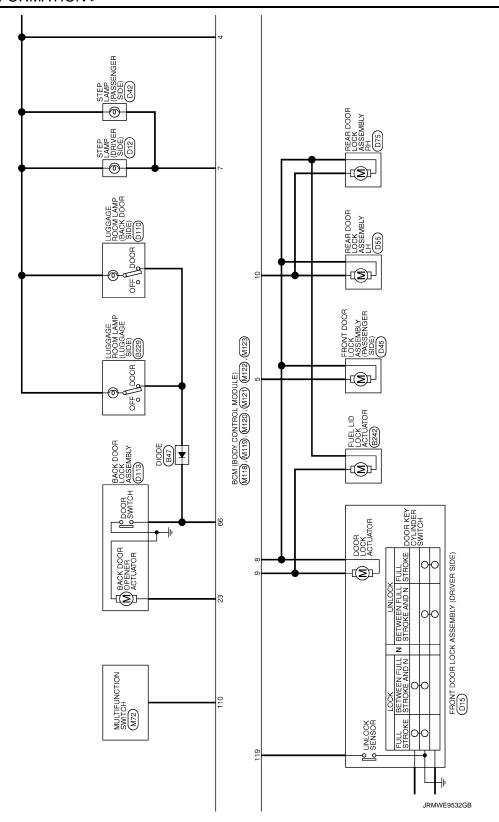
Р

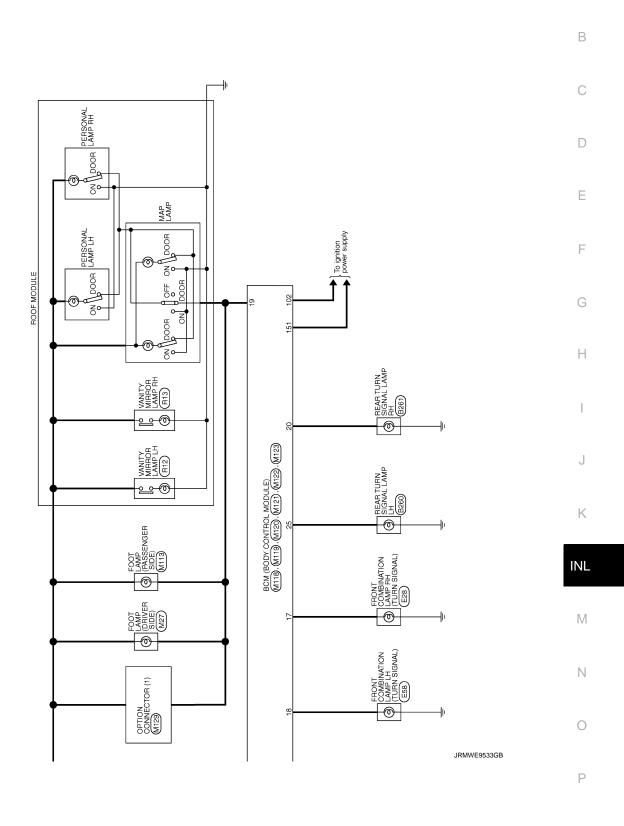
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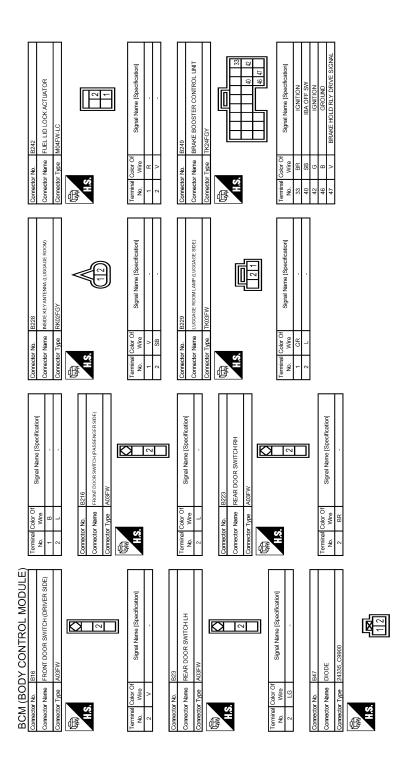








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## < ECU DIAGNOSIS INFORMATION >

| Connector No. D3  Connector Name DOOR MIRROR (DRIVER SIDE)  Connector Type TT+24/MV-AH  (2) T1 10   7   6   5   3   2   2   2   2   2   2   2   2   2 | Terrning   Coor Off   Signal Name   Specification   No.   Wire   Wire   Signal Name   Specification   Specification   Signal Name   Specification   Signal Name   Specification   Specification   Signal Name   Specification   Specific |  |
|---|--|--|
| Corrector No. B451  Corrector Name DRIVER SEAT CONTROL UNIT  Corrector Type ITH22FW  This is in                   | Terminal Color Of   Signal Name (Specification)     No.   Wide   Wide  |  |
| Corrector No. But14  Corrector Name Power SEAT SWITCH  Corrector Type INSTIGNY-CS  2 1  | Terminal Color Of   Signal Name   Specification   No.   Wire   Signal Name   Specification   No.   N |  |
| BCM (BODY CONTROL MODULE)  Corrector No. B260  Corrector Name REAR TURN SIGNAL LAMP LH  Corrector Type HS02FG-W                                       | Terminal Color Of   Signal Name (Specification)   Wore   Wine   Signal Name (Specification)     1  |  |

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Revision: 2013 December INL-87 2013 EX

| Connector No. D42         | Connector Name STEP LAMP (PASSENGER SIDE) Connector Type TB02FW                 | 1                                       | Terminal Color Of   Signal Name (Specification)     No.   Wire     1                     | 4.8<br>4.8<br>4.8   | Terminal Color Of  |  |
|---------------------------|---|---|--|---|--|--|
| Cornector No. D15         | Connector Name FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)  Connector Type E08FGY-RS |   | Terrnireal Color Of Signal Name [Specification]  1 LG 2 P                                | Corrector Name House House Willow State Order Corrector Type NS16FW-CS          | 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | Terrime (Journal   Signal Name [Specification]     1                     |
| Connector No. D13         | Connector Name FRONT OUTS DE HANDLE LH (REQUEST SWITCH) Connector Type RK02FL   |   | Terminal Color Of  | H.S.  | Torminal Color Of   Signal Name (Specification)   No.   Virge   1   0   1   2   SB |  |
| BCM (BODY CONTROL MODULE) | 7 BR 88 L   | 0 0 0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 | Connector No. 109 Connector Name POWER WINDOW MAIN SWITCH Connector Type NS03FW-CS  H.S. | Termitral Color Of   Signal Name [Specification]   No.   Wire   17   B   19   W | Connector No. 612  Connector Name STEP LAMP (DRIVER SIDE)  Connector Type TR02FW   | H.S.  Terminal Color Of Signal Name [Specification]  No. Wins  1 R  2 cp |

JRMWE9718GB

| Corrector Neme Luciance Room LAMP (BACK DOOR SIDE) Corrector Type TK03FW  LLS  | Terminal Color Of Signal Name (Specification)  1 V  |             |
|--|---|-------------|
| Corrector No. D74  Corrector Name REAR POWER WINDOW SWITCH RH Corrector Type NS08FW-CS  MAS.  1 3 4 5 1                              | Terminal Cober Of   Signal Name [Specification]   Name   Name  |             |
| Corrector No. D54  Corrector Name REAR POWER WINDOW SWITCH LIH  Corrector Type INSIGEW/CS.   | Terminal Color Of Number   Signal Name (Specification)   Number   Number |             |
| BCM (BODY CONTROL MODULE)  Corrector No. D44  Corrector None Front cirste INNAL Bit (cirste KY ANTENN)  Corrector Type RRUZMGY  H.S. | Terminal Color OI Signal Name (Specification)  1  |             |
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**INL-89** 2013 EX Revision: 2013 December

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| BCM (BODY CONTROL MODULE) Corrector No.   D114         | Connector No. D116                                     | Connector No.                 | E5   | Connector No.                 | E28   |
|--|--|-------------------------------|--|-------------------------------|---|
| Connector Name BACK DOOR OPENER SWITCH                 | Connector Name SWITCH                                  | Connector Name                | PRIM E/R (INTELLIGENT POWER DISTRIBUTION MODULE     ENGINE ROOM) | Connector Name                | Connector Name FRONT COMBINATION LAMP RH      |
| Connector Type   TK02MBR-P                             | Connector Type   TK02MBR-P                             | Connector Type                | TH20FW-CS12-M4-1V  | Connector Type RS08FB-PR      | RS08FB-PR                                     |
| H.S.   | HS.  | E.S.                          |  | H.S.                          | 2 3 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8     |
|  |  |                               |  |                               | <b>7</b> 11                                   |
| Terminal Color Of Signal Name [Specification]          | Terminal Color Of Signal Name [Specification]          | Terminal Color Of<br>No. Wire | Of Signal Name [Specification]                                   | Terminal Color Of<br>No. Wire | Of Signal Name [Specification]                |
| 1 GR -   | Н  | >                             |  | Н                             |   |
| 2 B .  | 2 B -  | 2                             |  | 3 B/Y                         |   |
|  |  | 7 H                           |  | 5 BG                          |   |
| Connector No. D115                                     | Connector No. D118                                     | ╁                             |  | H                             |   |
| Connector Name REAR WIPER MOTOR                        | Connector Name OLITSIDE KEY ANTENNA (BACK DOOR)        | 16 LG                         |  | 7 BR                          |   |
|  |  | +                             |  | 8                             | ,   |
| Connector Lype CJ04FW-1V                               | Connector Type RK02FGY                                 | 25 85                         |  |                               |   |
|  | · ·  | Н                             | -  | Connector No.                 | E41   |
| S.   | H.S.   | 33 CB                         |  | Connector Name                | ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) |
| 2 7  |  | Н                             |  | Connector Type                | BAA42FB-AHZ4-LH                               |
| 2 +  | 9  |                               |  | 4                             |   |
|  |  | Connector No.                 | E6   | U                             | [C  |
| Terminal Color Of Signal Name [Specification] No. Wire | Terminal Color Of Signal Name [Specification] No. Wire | Connector Name                | PDM E/R (INTELLIGENT POWER DISTRIBUTION MCGULE ENGINE ROOM)      | 13                            | (5) 19 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| 9  | Н  | Connector Type                | TH08FW-NH  |                               |   |
| 4 B  | 2 R  | 45                            |  |                               |   |
| ł  |  | <b>V</b> -                    | K  | <u>a</u>                      | Of Signal Name [Specification]                |
|  |  |                               | 44   | NO.                           |   |
|  |  |                               | 5000   | 5 - C                         | UBMR  |
|  |  |                               | 40 42 44 43  | 8                             | UBVR  |
|  |  |                               |  | 4<br>B                        | GROUND  |
|  |  | la<br>O                       | Of Stand Name (Secretical  | →                             | DS FL   |
|  |  | No. Wire                      |  | e BG                          |   |
|  |  | 39 P                          | •  | $\dashv$                      |   |
|  |  | $\dashv$                      | •  | +                             | DP FR   |
|  |  | +                             |  | 10 W                          | DS FR   |
|  |  | +                             |  | 12                            | VAC   |
|  |  | 4 4<br>4 0                    |  | 15 SHELD                      | GROUND  |
|  |  | ╀                             |  | П                             |   |

JRMWE9720GB

## < ECU DIAGNOSIS INFORMATION >

| ELLAS DESCRIPTION PROPERTY PRO | STOP LAMP SWITCH Connector Name   | e M04FW-LC Connector Type SP10FG        |                          | <br> | (123                     | <u> </u> | Tournian   Onland Of | Signal Name [Specification]   Terminal Color Of Signal Name [Specification]   No. Wire   Signal Name [Specification]   |                            | 2 60 | . 4 | 5 - GROUND | E51 7 - BA | - 8 × × × × × × × × × × × × × × × × × × | 1. ST | Connector Type RK10FG-DGY 10 - GROUND         |                                 | Connector No. M1         | (5   4   3   2   1) Connector Name FUSE BLOCK (J/B) | 10 9 8 7 6 Connector Type NS06FW-M2 |       | Signal Name [Specification] | POWER SUPPLY | POWER SUPPLY (MEMORY BACK-UP)                                |        | GROUND | POWER SUPPLY No. Wire | BACK-UP LAMP RELAY 1A | STARTER RELAY 3A | GROUND | 4A R              | >   | 4 | X - 48     | 8A L |
|--|---|---|--------------------------|------|--------------------------|----------|----------------------|--|----------------------------|------|-----|------------|------------|---|-------|---|---------------------------------|--------------------------|---|-------------------------------------|-------|-----------------------------|--------------|--|--------|--------|-----------------------|-----------------------|------------------|--------|-------------------|---|---|------------|------|
| \d   | Connector No. E38 Connector Name FRONT COMBINATION LAMP LH Connector Name | Connector Type RS08FB-PR Connector Type | 4                        |      | 2 3 4                    | 5678     | To see Out           | Signal Name [Specification]     Perminal Color Of No.   Wire No.   Wire   Wir |                            | N 60 | H   | 9 2        | S BG .     |   |       | Connector No. E103 Connector Type             | Connector Name FUSE BLOCK (J/B) | Connector Type NS16FW-CS | · cu  |                                     | 66 44 | Terminal Color Of No. Wire  | H            | Terminal Color Of Signal Name [Specification] 2 BR           | SB - 4 |        | 4F G 6                | +                     | 2000             | 10     | $\left\{ \right.$ |   |   |            |      |
| M (BODY CONTE  | 25 Y BUS-L<br>26 LG DB FL<br>27 CB DS FL                                  | K) 0                                    | 29 LG DS.RR<br>30 SB BLS | œ -  | 35 L CAN-H<br>45 B BUS-H |          | Connector No. E50    | Connector Name ICC BRAKE HOLD RELAY  | Connector Type M06FGY-R-US |      |     | 6 7 3      |            | Ð                                       |       | Terminal Color Of Signal Name [Specification] |                                 | H                        | 3 P   | Н                                   | , X   | Connector No E57            |              | COMPECUT NATION INTELLIGENINE WARNING BUZZET (ENGINE PACING) |        | 修      | ≪<br>11.5             | -{<br>-               | (1 3)            |        |                   | Terminal Color Of Signal Name [Specification] |   | <b>→</b> > | +    |

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| BCM (BODY CONTROL MODULE)                        | Cossocias No. MO.                             | Connector his MASA                                     | Connected to MO                               |
|--|---|--|---|
| Connector No. IMZ                                |   |  |   |
| Connector Name FUSE BLOCK (J/B)                  | Connector Name DIODE                          | Connector Name DATA LINK CONNECTOR                     | Connector Name COMBINATION SWITCH             |
| Connector Type NS10FW-CS                         | Connector Type 24335_C9900                    | Connector Type BD16FW                                  | Connector Type TH16FW-NH                      |
| 医  | 歷   | 曆  | 图   |
| H.S.   | H.S.  | H.S.   | H.S. 1  |
| । अने अम् ७म ६ वह उक्ष                           | 7   | 3 4 5 6 7 8  | 9 10 11 12 13                                 |
| Terminal Color Of Signal Name [Specification]    | Terminal Color Of Signal Name [Specification] | Terminal Color Of Signal Name [Specification]          | Terminal Color Of Signal Name [Specification] |
| +  | t   | +  | +   |
| Н  | 2 W -   | 4 B  | 2 SB OUTPUT 4                                 |
| 7  |   | 5 B -  | GR FRW  |
| 7 B9 7   | Connector No. M22                             | - 1 9  | 4 G IGN                                       |
| - W  | $\overline{}$                                 | > C  | - a   |
| ╀  | Connector Name KEY SLOT                       | H  | >   |
| ┨  | Connector Type TH12FW-NH                      | ╀  | 8 BG OUTPUT 5                                 |
|  | ľ   | 16 Y   | 9 Y INPUT 2                                   |
| Connector No. M3                                 |   |  | 10 R INPUT 4                                  |
| Connector Name FUSE BLOCK (JVB)                  |   | ١  | 97  |
|  | 1   | Connector No. M27                                      | Д   |
| Connector Type NS12FW-CS                         | 1 2 3 5 6                                     | Connector Name FOOT LAMP (DRIVER SIDE)                 | BR  |
| 1  | 7 11  |  | 14 G OUTPUT 2                                 |
| Aphth  |   | actor 1 ype  |   |
|  | E E   |  | Connector No. M50                             |
| 38 372 304 104 104 104 104 104 104 104 104 104 1 | 0   |  | Connector Name PUSH-BUTTON IGNITION SWITCH    |
| 2  | 2 CB CLOCK                                    |  |   |
|  | 5 ×   | 7.1  | Collector Type Troor BY                       |
| ə  | <b>*</b>                                      |  |   |
| Wire   |   |  | 1 2 2 3 3                                     |
| 10C L -  | 7 B GROUND<br>11 BR KEY SWITCH SIGNAL         | Terminal Color Of Signal Name [Specification] No. Wire | 7 L   |
| H  |   | Н  | / O C   |
| 6C R   |   | 2 BR -   |   |
| 98 S6  |   |  | Terminal Color Of Cined Name (Conditionalise) |
|  |   |  |   |
|  |   |  | - c   |
|  |   |  | +   |
|  |   |  | 4 BR  |
|  |   |  | _   |
|  |   |  | ·   |

JRMWE9722GB

## < ECU DIAGNOSIS INFORMATION >

| Corrector No. M101 Corrector Name TIRE PRESSURE RECEIVER Corrector Type TK04FW H.S.                               | Termiral Coor Of Signal Name (Specification)  1  |             |
|---|--|-------------|
| Cornector No. M72  Cornector Type TH16FWNH  Cornector Type TH16FWNH  H.S.   1   1   1   1   1   1   1   1   1     | Terminal Color Of   Signal Name (Specification)   Number   Numbe |             |
| Corrector No.   M67   | Number   Color Of   Signal Name   Specification   Number   Augre Power   Suprat Name   Specification   Number   Augre Power   Suprat Name   Augre Power   Suprat Name   Augre Power   Suprat   Augre Power   Augre |             |
| BCM (BODY CONTROL MODULE)  7 V 8 P  Corrector No. M83  Corrector Name COMBINATION METER  Corrector Type ITHOFW-NH | Terminal Color Of the Color o |             |
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Revision: 2013 December INL-93 2013 EX

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| BCM (BODY CONTROL MODULE)                     |                               |                                     |                  |                  |  |                | ĺ           |  |
|---|-------------------------------|-------------------------------------|------------------|------------------|--|----------------|-------------|--|
| Connector No. M113                            | Connector No.                 | M119                                | Connector No.    | ٦                | M121                                     | 80             | GR          | NATS ANT AMP.                          |
| COOL LAND (BASSENCED SIDE)                    | Company Mome                  | CHINDON LOGBROOM WOR                | sofooooo         |                  | GIROW IODEROS AGOS MOS                   | 81             | W           | NATS ANT AMP.                          |
|   | colliector realite            |                                     | colliector value |                  | ICIM (BOD) CONTROL MODOLE)               | 82             | ď           | IGN RELAY (F/B) CONT                   |
| Connector Type A02FW                          | Connector Type                | NS16FW-CS                           | Connector Type   |                  | TH40FGY-NH                               | 83             | Υ           | KEYLESS ENTRY RECEIVER COMM            |
| ſ   | 1                             |                                     | ſ                |                  |  | 87             | BR          | COMBI SW INPUT 5                       |
|   | 19                            |                                     |                  |                  |  | 88             | >           | COMBI SW INPUT 3                       |
| K   | \<br>\<br>\                   |                                     |                  |                  |  | 06             | Ь           | CAN-L                                  |
|   | Ę                             | 4 5 7 8 9 10                        | 2                |                  | 7  | 91             | ٦           | CAN-H                                  |
| 2 1   |                               | 11 13 14 15 17 18 19                |                  |                  | 24 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 95             | PΠ          | KEY SLOT ILL CONT                      |
|   |                               |                                     |                  |                  | 20 00 00 00 00 00 00 00 00 00 00 00 00 0 | 93             | >           | ONINO                                  |
|   |                               |                                     |                  |                  |  | 94             | ≻           | PUDDLE LAMP CONT                       |
|   |                               |                                     |                  | ľ                |  | 92             | BG          | ACC RELAY CONT                         |
| Terminal Color Of Signal Name [Specification] | Terminal Color Of<br>No. Wire | Signal Name [Specification]         | Terminal<br>No.  | Color Of<br>Wire | Signal Name [Specification]              | 8 8            | R a         | AT SHIFT SELECTOR POWER SUPPLY SHIFT P |
| t   | t                             | INTERIOR ROOM LAMP POWER SUPPLY     | 35               | 85               | LUGGAGE ROOM ANT-                        | 9              | . C         | PASSENGER DOOR REQUEST SW              |
| 2 BR -  | 2 F                           | PASSENGER DOOR UNLOCK OUTPUT        | 32               | >                | LUGGAGE ROOM ANT+                        | 101            | SB          | DRIVER DOOR REQUEST SW                 |
|   | 7                             | STEP LAMP CONT                      | 88               | 8                | BACK DOOR ANT-                           | 102            | BG          | BLOWER FAN MOTOR RELAY CONT            |
|   | 8                             | ALL DOOR, FUEL LID LOCK OUTPUT      | 39               | W                | BACK DOOR ANT+                           | 103            | 97          | KEYLESS ENTRY RECEIVER POWER SUPPLY    |
| Connector No. M118                            | 9                             | DRIVER DOOR, FUEL LID UNLOCK OUTPUT | 47               | ٨                | IGN RELAY (IPDM E/R) CONT                | 107            | PC          | COMBI SW INPUT 1                       |
| (3 II IOOM IOOTIVOO MOOI work septembol       | 10 BR                         | REAR DOOR UNLOCK OUTPUT             | 52               | SB               | STARTER RELAY CONT                       | 108            | Я           | COMBI SW INPUT 4                       |
| BOW (BODT CON                                 | 11 R                          | BAT (FUSE)                          | 09               | BR               | PUSH SW                                  | 109            | У           | COMBI SW INPUT 2                       |
| Connector Type M03FB-LC                       | 13<br>B                       | GROUND                              | 61               | ×                | BACK DOOR OPENER REQUEST SW              | 110            | 9           | HAZARD SW                              |
| ſ   | 14 W                          | PUSH-BUTTON IGNITION SW ILL GND     | 64               | ۸                | I-KEY WARN BUZZER (ENG ROOM)             |                |             |  |
|   | 15 Y                          | ACC IND                             | 65               | BG               | REAR WIPER STOP POSITION                 |                |             |  |
| Ī   | 17 W                          | TURN SIGNAL RH (FRONT)              | 99               | œ                | BACK DOOR SW                             | Connector No.  |             | M123                                   |
| 13.   | 4                             | TURN SIGNAL LH (FRONT)              | 49               | GR               | BACK DOOR OPENER SW                      | Connector Name |             | BCM (BODY CONTBOL MODULE)              |
|   | ۱9 ۷                          | INT ROOM LAMP CONT                  | 99               | BR               | REAR RH DOOR SW                          |                |             | (2000)                                 |
| <u></u>                                       |                               |                                     | 69               | œ                | REAR LH DOOR SW                          | Connector Type |             | TH40FG-NH                              |
| 1   |                               |                                     |                  |                  |  | ą              |             |  |
|   | Connector No.                 | M120                                |                  | 1                |  | AFF.           |             |  |
| <u>a</u>                                      | Connector Name                | BCM (BODY CONTROL MODULE)           | Connector No.    |                  | M122                                     | ) II S         |             |  |
|   |                               |                                     | Connector Name   |                  | BCM (BODY CONTROL MODULE)                |                | L           |  |
| B/  | Connector Type                | NS12FW-CS                           |                  |                  | (11000000000000000000000000000000000000  |                |             | (2) (2) (3) (4) (4)                    |
|   | (                             |                                     | Connector Type   |                  | TH40FB-NH                                |                | £.]         | 50                                     |
| 3 Y POWER WINDOW POWER SUPPLY(RAP)            | 厚                             |                                     | q                |                  |  |                |             |  |
|   | )<br> <br>                    |                                     | 重                |                  |  |                |             |  |
|   |                               | 20                                  |                  |                  |  | a              | Color Of    | Signal Name [Specification]            |
|   |                               | 000                                 | 2                |                  |  | ė<br>Ž         | Wire        |  |
|   |                               | 07 67                               |                  |                  |  | 113            | ۵           | OPLICAL SENSOR                         |
|   |                               |                                     |                  |                  | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 116            | SB          | STOP LAMP SW 1                         |
|   |                               |                                     |                  |                  |  | 118            | Ь           | STOP LAMP SW 2                         |
|   | Terminal Color Of             | L                                   |                  |                  |  | 119            | SB          | DR DOOR UNLOCK SENSOR                  |
|   | No. Wire                      | Signal Name [Specification]         | Terminal (       | Color Of         |  | 121            | BR          | KEY SLOT SW                            |
|   | 20 ^                          | TURN SIGNAL RH (REAR)               | ġ.               | Wire             | Signal Name [Specification]              | 123            | ×           | IGN F/B                                |
|   | 23 G                          | BACK DOOR OPEN OUTPUT               | 74               | g                | PASSENGER DOOR ANT-                      | 124            | ρŢ          | PASSENGER DOOR SW                      |
|   | 25 G                          | TURN SIGNAL LH (REAR)               | 75               | GR               | PASSENGER DOOR ANT+                      | 132            | BR          | POWER WINDOW SW COMM                   |
|   | 26 G                          | REAR WIPER OUTPUT                   | 9/               | >                | DRIVER DOOR ANT-                         | 133            | >           | PUSH-BUTTON IGNITION SW ILL POWER      |
|   |                               |                                     | - 22             | PI               | DRIVER DOOR ANT+                         | 134            | GR          | LOCK IND                               |
|   |                               |                                     | 78               | >                | ROOM ANT1-                               | 137            | BG          | RECEIVER/SENSOR GND                    |
|   |                               |                                     | 6/               | R                | ROOM ANT1+                               | 138            | <b>&gt;</b> | RECEIVER/SENSOR POWER SUPPLY           |
|   |                               |                                     |                  |                  |  |                |             |  |

JRMWE9724GB

| O DAG                     |                 | CONTRECTOR NAME & VAINE & MIRKOR LAWP LFI | Connector Type MCA02FW   | 4                 |                   |                   |                   | <u> C</u>      | 7                               | ] | la<br>O                          | No. Wire Ogua rante [Specification] | -            | 2 - 2                    |     |          | Connector No. R13 | DO GMA I GOOD WANTED | COLLECTO MARIE VALUE MINIOUS CAMPE IN I | Connector Type MCA02FW |       |         |                             |                            | 5                  | ]                         |                | <u>a</u>      | No. Wire                               | 2              |          |                 |                                |     |   |        |                             |                  |   |         |
|---------------------------|-----------------|---|--------------------------|-------------------|-------------------|-------------------|-------------------|----------------|---------------------------------|---|----------------------------------|-------------------------------------|--------------|--------------------------|-----|----------|-------------------|----------------------|---|------------------------|-------|---------|-----------------------------|----------------------------|--------------------|---------------------------|----------------|---------------|--|----------------|----------|-----------------|--------------------------------|-----|---|--------|-----------------------------|------------------|---|---------|
| 2000                      |                 | IN SHIFT SELECTOR                         | Connector Type TH12FW-NH |                   |                   | [                 |                   | 1 2 3 4 5      | 7 8 9 10 11                     |   | Of Second Name (Secondification) |                                     | -            |                          | -   | -        | -                 |                      | 3                                       |                        |       | -       |                             | B4                         |                    | IN SUNROOF MOTOR ASSEMBLY | PEA10FGY       |               |  |                | 7 8 9 10 |                 | Of Signal Name [Specification] |     |   | SN     |                             | SPEED SENSOR(2P) | Ⅱ | GROUND  |
|                           | Collifector No. | Connector Name                            | Connector Typ            | 4                 | 修                 | Š                 | Ž<br>E            |                |                                 |   | Terminal Color Of                | No. Wire                            | 1 W          | 2 \                      | 3 L | 4<br>B   | 5 G               | 7 R                  | 8 SB                                    | 9<br>6                 | 10 GR | 11<br>R |                             | Connector No               |                    | Connector Name            | Connector Type | ą             | 医                                      | E.S.           |          |                 | Terminal Color Of              | NO. | Ĭ | 5<br>P | 7 BR                        | 8                | 4 | 10 G    |
| BCM (BODY CONTROL MODULE) | SHIFT NP        | SECURITY IND LAMP CONT                    | COMBI SW OUTPUT 5        | COMBI SW OUTPUT 1 | COMBI SW OUTPUT 2 | COMBI SW OUTPUT 3 | COMBI SW OUTPUT 4 | DRIVER DOOR SW | REAR WINDOW DEFOGGER RELAY CONT |   | M129                             | OPTION CONNECTOR (1)                |              | TH08MW-NH                |     |          |                   | ]<br>[               | 8                                       | ď                      |       |         | Signal Name [Specification] | BOOM LAMP BAT SAVER(POWER) | BOOM LAMP OF TREET |                           |                | M131          | INSIDE KEY ANTENNA (INSTRUMENT CENTER) | RK02FGY        | <        | $\triangleleft$ |                                | )   |   |        | Signal Name [Specification] |                  |   |         |
| M (BOL                    | - GR            | Н   | 5 BG                     | 3 b               | 1 G               | 2   L             | S SB              | ) IC           | 9                               |   | Connector No.                    | Connector Name                      | acron regime | Connector Type TH08MW-NH |     | <b>-</b> | 3                 | ė                    |   |                        |       |         | erminal Color Of            | t                          | ο α                | ┨                         | - 1            | Connector No. | Connector Name                         | Connector Type |          | ς,              | ı                              |     |   |        | ᄝ                           | +                | æ | <u></u> |
| ည်း                       | 140             | 141                                       | 142                      | 143               | 144               | 145               | 146               | 150            | 151                             |   | Conne                            | Jones                               | 5            | Conne                    | 4   | ß        | 7                 | 1                    |   |                        |       |         | Termir                      | e e                        | 2                  |                           |                | Conne         | Conne                                  | Conne          | 1        | 7               | ļ                              |     |   | Į      | Termi                       | ġ<br>Ž           |   | 2       |

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FAIL-SAFE CONTROL BY DTC

Fail-safe

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

#### < ECU DIAGNOSIS INFORMATION >

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

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

## 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        | B2562: LOW VOLTAGE  |
| 2        | U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)   |
| 3        | <ul> <li>B2190: NATS ANTENNA AMP</li> <li>B2191: DIFFERENCE OF KEY</li> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> <li>B2195: ANTI SCANNING</li> </ul> |

#### < ECU DIAGNOSIS INFORMATION >

| Priority | DTC   | Λ |
|----------|---|---|
|          | B2553: IGNITION RELAY     B2555: STOP LAMP     B2556: PUSH-BTN IGN SW     B2557: VEHICLE SPEED     B2560: STARTER CONT RELAY     B2601: SHIFT POSITION  | В |
|          | <ul> <li>B2601: SHIFT POSITION</li> <li>B2602: SHIFT POSITION</li> <li>B2603: SHIFT POSI STATUS</li> <li>B2604: PNP SW</li> <li>B2605: PNP SW</li> </ul>  | С |
| 4        | <ul> <li>B2608: STARTER RELAY</li> <li>B260A: IGNITION RELAY</li> <li>B260F: ENG STATE SIG LOST</li> <li>B2614: ACC RELAY CIRC</li> </ul>   | D |
|          | <ul> <li>B2615: BLOWER RELAY CIRC</li> <li>B2616: IGN RELAY CIRC</li> <li>B2617: STARTER RELAY CIRC</li> <li>B2618: BCM</li> </ul>  | Е |
|          | <ul> <li>B261A: PUSH-BTN IGN SW</li> <li>B261E: VEHICLE TYPE</li> <li>B26EA: KEY REGISTRATION</li> <li>C1729: VHCL SPEED SIG ERR</li> <li>U0415: VEHICLE SPEED SIG</li> </ul>   | F |
|          | <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> </ul>  | Н |
| 5        | <ul> <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> | J |
| 6        | C1719. [FRESSDATA ERR] RE C1734: CONTROL UNIT  B2621: INSIDE ANTENNA B2623: INSIDE ANTENNA  | K |

DTC Index

#### 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="INL-15">INL-15</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<br>warning lamp ON | Tire pressure<br>monitor warning<br>lamp ON | Reference<br>page |
|--|-----------|---|------------------------------------|---|-------------------|
| No DTC is detected. further testing may be required. | _         | _   | _                                  | _   | _                 |
| U1000: CAN COMM CIRCUIT                              | _         | _   | _                                  | _   | BCS-41            |
| U1010: CONTROL UNIT (CAN)                            | _         | _   | _                                  | _   | BCS-42            |
| U0415: VEHICLE SPEED SIG                             | _         | _   | _                                  | _   | BCS-43            |
| B2190: NATS ANTENNA AMP                              | ×         | _   | _                                  | _   | SEC-40            |

Revision: 2013 December INL-97 2013 EX

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| CONSULT display           | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key<br>warning lamp ON | Tire pressure<br>monitor warning<br>lamp ON | Reference<br>page |  |
|---------------------------|-----------|---|------------------------------------|---|-------------------|--|
| B2191: DIFFERENCE OF KEY  | ×         | _   | _                                  | _   | SEC-43            |  |
| B2192: ID DISCORD BCM-ECM | ×         | _   | _                                  | _   | SEC-44            |  |
| B2193: CHAIN OF BCM-ECM   | ×         | _   | _                                  | _   | SEC-45            |  |
| B2195: ANTI SCANNING      | ×         | _   | _                                  | _   | SEC-46            |  |
| B2553: IGNITION RELAY     | _         | ×   | _                                  | _   | PCS-50            |  |
| B2555: STOP LAMP          | _         | ×   | _                                  | _   | SEC-47            |  |
| B2556: PUSH-BTN IGN SW    | _         | ×   | ×                                  | _   | SEC-49            |  |
| B2557: VEHICLE SPEED      | ×         | ×   | ×                                  | _   | SEC-51            |  |
| B2560: STARTER CONT RELAY | ×         | ×   | ×                                  |   | SEC-52            |  |
| B2562: LOW VOLTAGE        | _         | ×   | _                                  |   | BCS-44            |  |
| B2601: SHIFT POSITION     | ×         | ×   | ×                                  | _   | SEC-53            |  |
| B2602: SHIFT POSITION     | ×         | ×   | ×                                  | _   | SEC-56            |  |
| B2603: SHIFT POSI STATUS  | ×         | ×   | ×                                  |   | SEC-59            |  |
| B2604: PNP SW             | ×         | ×   | ×                                  | _   | SEC-62            |  |
| B2605: PNP SW             | ×         | ×   | ×                                  | _   | SEC-64            |  |
| B2608: STARTER RELAY      | ×         | ×   | ×                                  | _   | SEC-66            |  |
| B260A: IGNITION RELAY     | ×         | ×   | ×                                  | _   | PCS-52            |  |
| B260F: ENG STATE SIG LOST | ×         | ×   | ×                                  | _   | SEC-68            |  |
| B2614: ACC RELAY CIRC     | _         | ×   | ×                                  | _   | PCS-54            |  |
| B2615: BLOWER RELAY CIRC  | _         | ×   | ×                                  | _   | PCS-57            |  |
| B2616: IGN RELAY CIRC     | _         | ×   | ×                                  | _   | PCS-60            |  |
| B2617: STARTER RELAY CIRC | ×         | ×   | ×                                  | _   | SEC-71            |  |
| B2618: BCM                | ×         | ×   | ×                                  | _   | PCS-63            |  |
| B261A: PUSH-BTN IGN SW    | _         | ×   | ×                                  | _   | SEC-73            |  |
| B261E: VEHICLE TYPE       | ×         | ×   | × (Turn ON for 15 seconds)         | _   | SEC-76            |  |
| B2621: INSIDE ANTENNA     | _         | ×   | _                                  | _   | DLK-58            |  |
| B2623: INSIDE ANTENNA     | _         | ×   | _                                  | _   | DLK-60            |  |
| B26E1: ENG STATE NO RES   | ×         | ×   | ×                                  |   | SEC-69            |  |
| B26EA: KEY REGISTRATION   | _         | ×   | × (Turn ON for 15 seconds)         | _   | SEC-70            |  |
| C1704: LOW PRESSURE FL    | _         | _   | _                                  | ×   |                   |  |
| C1705: LOW PRESSURE FR    | _         | _   | _                                  | ×   | 14/77 00          |  |
| C1706: LOW PRESSURE RR    | _         | _   | _                                  | ×   | <u>WT-23</u>      |  |
| C1707: LOW PRESSURE RL    | _         | _   | _                                  | ×   |                   |  |
| C1708: [NO DATA] FL       | _         | _   | _                                  | ×   |                   |  |
| C1709: [NO DATA] FR       | _         | _   | _                                  | ×   | ,                 |  |
| C1710: [NO DATA] RR       | _         | _   | _                                  | ×   | <u>WT-25</u>      |  |
| C1711: [NO DATA] RL       | _         | _   | _                                  | ×   |                   |  |

## < ECU DIAGNOSIS INFORMATION >

| CONSULT display           | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key<br>warning lamp ON | Tire pressure<br>monitor warning<br>lamp ON | Reference<br>page |
|---------------------------|-----------|---|------------------------------------|---|-------------------|
| C1716: [PRESSDATA ERR] FL | _         | _   | _                                  | ×   |                   |
| C1717: [PRESSDATA ERR] FR | _         | _   | _                                  | ×   | WT-28             |
| C1718: [PRESSDATA ERR] RR | _         | _   | _                                  | ×   | <u>vv 1-20</u>    |
| C1719: [PRESSDATA ERR] RL | _         | _   | _                                  | ×   |                   |
| C1729: VHCL SPEED SIG ERR | _         | _   | _                                  | ×   | <u>WT-30</u>      |
| C1734: CONTROL UNIT       | _         | _   | _                                  | ×   | <u>WT-32</u>      |

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### **INTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

## INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

#### **CAUTION:**

Perform the self-diagnosis with CONSULT 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  Personal lamp  Foot lamp  Luggage room lamp  Step lamp  Vanity mirror lamp  | Harness between BCM and each interior room lamp     BCM  | Interior room lamp power supply circuit Refer to INL-21.                                  |
| <ul> <li>Interior room lamp does not turn ON even though the door is open.</li> <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> | Harness between BCM and each door switch     Harness between BCM and each interior room lamp     BCM | Door switch circuit Refer to DLK-63.  Interior room lamp control circuit Refer to INL-23. |
| <ul> <li>Puddle lamp does not turn ON even though the door is open.</li> <li>Puddle lamp does not turn OFF even though the door is closed.</li> </ul>  | Harness between BCM and each door switch     Harness between BCM and puddle lamp     BCM             | Door switch circuit Refer to DLK-63.  Puddle lamp circuit Refer to INL-23.                |
| 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-17.                                    |
| Step lamps (driver side and passenger side) do not turn ON. (The map lamp and the personal lamp turn ON.) Step lamps (driver side and passenger side) do not turn OFF. (The map lamp and the personal lamp turn OFF.)              | Harness between BCM and each step lamp     BCM   | Step lamp circuit Refer to INL-25.  |
| Push-button ignition switch illumination does not illuminate.  | Harness between BCM and push-<br>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-18.                      |

#### **PRECAUTIONS**

#### < PRECAUTION >

## **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.

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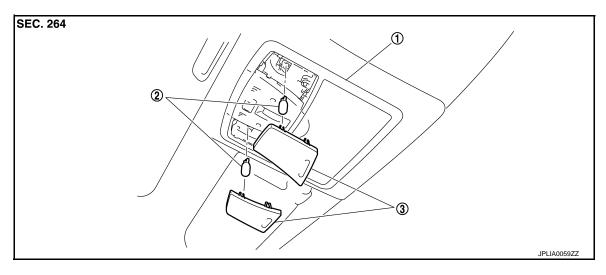
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Revision: 2013 December INL-101 2013 EX

## REMOVAL AND INSTALLATION

### MAP LAMP

Exploded View



1. Map lamp assembly

2. Bulb

3. Lens

#### Removal and Installation

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Refer to <a href="INT-28">INT-28</a>, "NORMAL ROOF: Exploded View" for the map lamp assembly installation/removal.

Replacement

#### **CAUTION:**

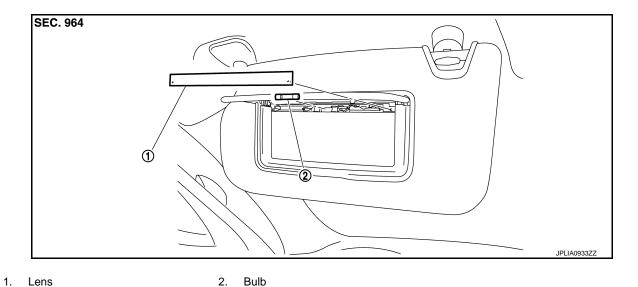
- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because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

#### MAP LAMP BULB

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

### VANITY MIRROR LAMP

Exploded View



Replacement

#### **CAUTION:**

• Disconnect the battery negative terminal or remove the fuse.

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

#### VANITY MIRROR LAMP BULB

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

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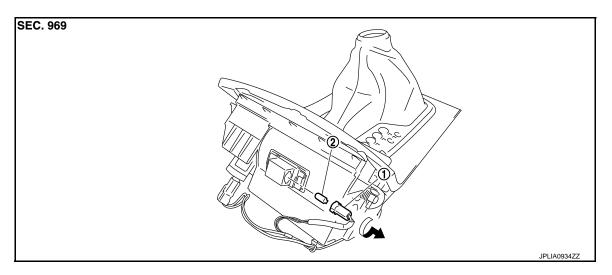
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#### CIGARETTE LIGHTER ILLUMINATION

< REMOVAL AND INSTALLATION >

## CIGARETTE LIGHTER ILLUMINATION

Exploded View



1. Bulb socket 2. Bulb

Replacement

#### **CAUTION:**

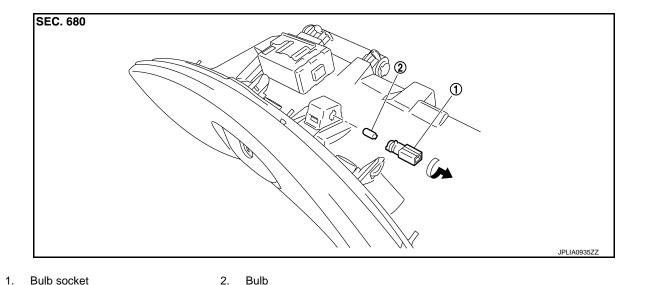
- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
   Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because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

#### CIGARETTE LIGHTER ILLUMINATION BULB

- 1. Remove the console finisher assembly. Refer to IP-24, "Removal and Installation".
- 2. Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb.

### **GLOVE BOX LAMP**

#### **Exploded View** INFOID:0000000008289449



Replacement INFOID:0000000008289450

#### **CAUTION:**

Disconnect the battery negative terminal or remove the fuse.

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

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

- 1. Remove the glove box assembly. Refer to <a href="#IP-12">IP-12</a>, "Exploded View".
- 2. Remove the instrument lower panel RH. Refer to <a href="IP-12">IP-12</a>, "Exploded View".

2.

- Rotate the bulb socket counterclockwise and unlock it.
- 4. Remove the bulb.

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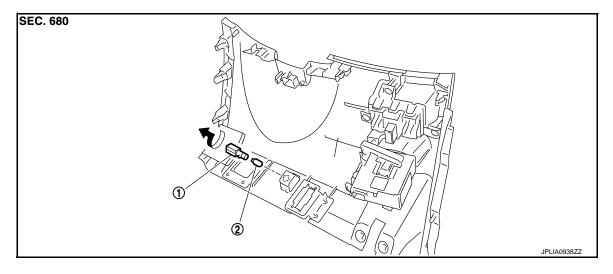
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FOOT LAMP DRIVER SIDE

DRIVER SIDE: Exploded View





1. Bulb socket 2. Bulb

### **DRIVER SIDE**: Replacement

INFOID:0000000008289452

#### CAUTION:

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

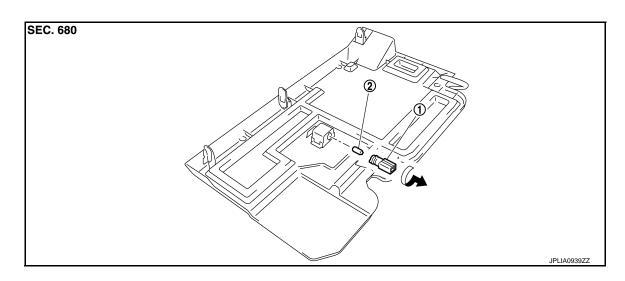
#### FOOT LAMP BULB (DRIVER SIDE)

- 1. Remove the instrument lower panel LH. Refer to IP-12, "Exploded View".
- 2. Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb.

#### PASSENGER SIDE

## PASSENGER SIDE : Exploded View

INFOID:0000000008289453



#### **FOOT LAMP**

#### < REMOVAL AND INSTALLATION >

1. Bulb socket 2. Bulb

### PASSENGER SIDE: Replacement

INFOID:0000000008289454

#### **CAUTION:**

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

#### FOOT LAMP BULB (PASSENGER SIDE)

- Remove the instrument lower cover. Refer to <u>IP-12, "Exploded View"</u>.
- 2. Rotate the bulb socket counterclockwise and unlock it.
- 3. Remove the bulb.

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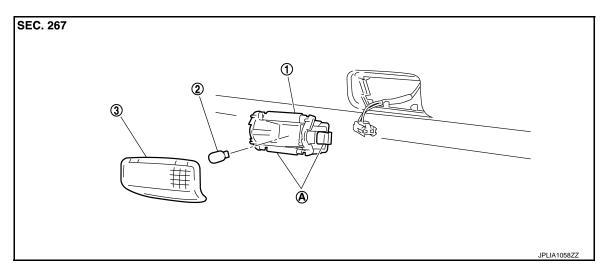
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Revision: 2013 December INL-107 2013 EX

### STEP LAMP

Exploded View



- 1. Step lamp case
- A Metal clip

2. Bulb

3. Lens

#### Removal and Installation

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#### **CAUTION:**

Disconnect the battery negative terminal or remove the fuse.

#### **REMOVAL**

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

#### **INSTALLATION**

Install in the reverse order of removal.

Replacement

#### **CAUTION:**

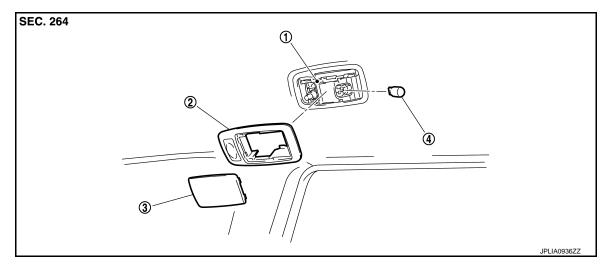
- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
   Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because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

#### STEP LAMP BULB

- 1. Remove the step lamp.
- Remove the lens.
- 3. Remove the bulb.

### PERSONAL LAMP

**Exploded View** INFOID:0000000008289458



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

Bulb

#### NOTE:

Replace the personal lamp case as a set (right and left). After removing the headlining assembly, remove the personal lamp case. Refer to INT-28, "NORMAL ROOF: Exploded View".

#### Removal and Installation

INFOID:0000000008289459

#### **CAUTION:**

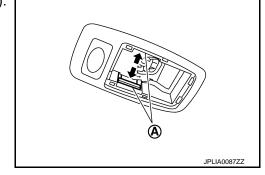
Disconnect the battery negative terminal or remove the fuse.

#### REMOVAL

- 1. Remove the headlining assembly. Refer to INT-28, "NORMAL ROOF: Exploded View".
- Insert any appropriate tool into the gap between the lens. Remove the lens.
- Press the both side pawls (A) to the arrow direction (-). Remove the personal lamp finisher.
- Remove the personal lamp case from the headlining assembly.

#### NOTE:

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



#### **INSTALLATION**

Install in the reverse order of removal.

The following is easier to install the personal lamp finisher.

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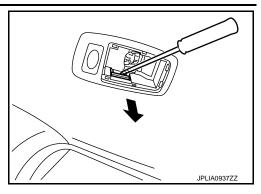
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#### **PERSONAL LAMP**

#### < REMOVAL AND INSTALLATION >

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



Replacement

#### **CAUTION:**

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

#### PERSONAL LAMP BULB

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

### **PUDDLE LAMP**

### < REMOVAL AND INSTALLATION >

## **PUDDLE LAMP**

**Exploded View** INFOID:0000000008289461

Puddle lamp is integrated into the door mirror assembly (driver side).

- With ADP. Refer to <u>MIR-122, "Exploded View"</u>.
  Without ADP. Refer to <u>MIR-143, "Exploded View"</u>.

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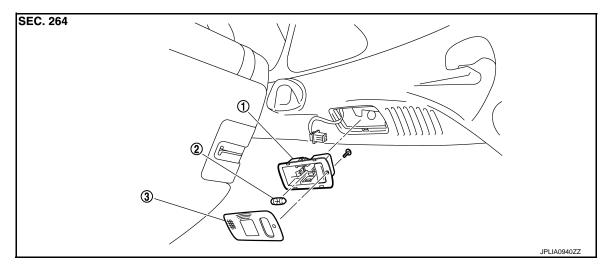
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# LUGGAGE ROOM LAMP

LUGGAGE SIDE

LUGGAGE SIDE : Exploded View

INFOID:0000000008289462



 Luggage room lamp (luggage side) 2. Bulk housing 3. Lens

LUGGAGE SIDE: Removal and Installation

INFOID:0000000008289463

#### **CAUTION:**

Disconnect the battery negative terminal or remove the fuse.

#### **REMOVAL**

- Insert any appropriate tool into the gap between the luggage room lamp (luggage side) and luggage side
  finisher upper. And then remove the luggage room lamp (luggage side).
- 2. Disconnect the luggage room lamp (luggage side) connector.

#### INSTALLATION

Install in the reverse order of removal.

### LUGGAGE SIDE: Replacement

INFOID:0000000008289464

#### **CAUTION:**

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

#### LUGGAGE ROOM LAMP (LUGGAGE SIDE) BULB

- 1. Remove the luggage room lamp (luggage side). Refer to INL-112, "LUGGAGE SIDE: Exploded View".
- 2. Remove the screw. And then remove the lens.
- Remove the bulb.

#### **BACK DOOR SIDE**

### **BACK DOOR SIDE: Exploded View**

INFOID:0000000008289465

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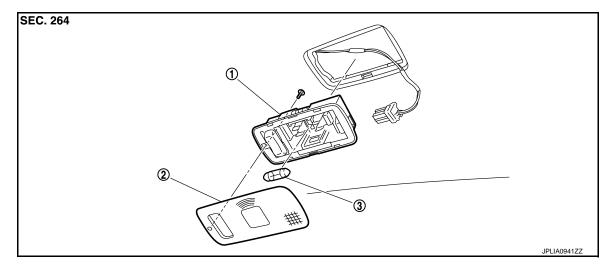
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 Luggage room lamp (back door side) 2. Lens assembly Bulb

#### BACK DOOR SIDE: Removal and Installation

INFOID:0000000008289466

#### **CAUTION:**

Disconnect the battery negative terminal or remove the fuse.

#### REMOVAL

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

#### INSTALLATION

Install in the reverse order of removal.

#### BACK DOOR SIDE: Replacement

INFOID:0000000008289467

#### **CAUTION:**

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

#### LUGGAGE ROOM LAMP BULB

- Remove the luggage room lamp (back door side). Refer to <u>INL-113, "BACK DOOR SIDE : Exploded View"</u>.
- 2. Remove the screw. And then remove the lens.
- 3. Remove the bulb.

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

INFOID:0000000008289468

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< SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

## **Bulb Specifications**

Luggage room lamp

Wattage (W) Item Type Push-button ignition switch illumination LED Map lamp Wedge 8 Console lamp LED (integrated into the map lamp assembly) Puddle lamp LED Vanity mirror lamp 2 Cigarette lighter illumination Wedge 1.4 Glove box lamp Wedge 1.4 Foot lamp Wedge 1.4 8 Step lamp Wedge Personal lamp 8 Wedge