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< BASIC INSPECTION >

BASIC INSPECTION Α INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT В ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INFOID:0000000006201755 BEFORE REPLACEMENT When replacing BCM, save or print current vehicle specification with CONSULT-III configuration before replacement. D NOTE: If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM. Е AFTER REPLACEMENT **CAUTION:** When replacing BCM, you must perform "WRITE CONFIGURATION" with CONSULT-III. F - Complete the procedure of "WRITE CONFIGURATION" in order. - If you set incorrect "WRITE CONFIGURATION", incidents might occur. Configuration is different for each vehicle model. Confirm configuration of each vehicle model. When replacing BCM, perform the system initialization (NATS). ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:00000000006201756 1. SAVING VEHICLE SPECIFICATION (P)CONSULT-III Configuration Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-3, "CONFIGU-RATION (BCM): Description". NOTE: If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM. K >> GO TO 2. 2.replace $_{ m BCM}$ Replace BCM. Refer to BCS-66, "Exploded View". >> GO TO 3. **BCS** 3.writing vehicle specification (P)CONSULT-III Configuration Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to BCS-4, "CONFIGURATION (BCM): Special Repair Requirement". >> GO TO 4. 4. INITIALIZE BCM (NATS) Perform BCM initialization, (NATS) Р >> WORK END CONFIGURATION (BCM)

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Vehicle specification needs to be written with CONSULT-III because it is not written after replacing BCM.

CONFIGURATION (BCM): Description

< BASIC INSPECTION >

Configuration has three functions as follows

| Function | Description |
|--|---|
| READ CONFIGURATION | Reads the vehicle configuration of current BCM.Saves the read vehicle configuration. |
| WRITE CONFIGURATION - Manual selection | Writes the vehicle configuration with manual selection. |
| WRITE CONFIGURATION - Config file | Writes the vehicle configuration with saved data. |

NOTE:

Manual setting item: Items which need selection by vehicle specifications

Automatic setting item: Items which are written in automatically (Setting can not be changed)

CAUTION:

- When replacing BCM, you must perform "WRITE CONFIGURATION" with CONSULT-III.
- Complete the procedure of "WRITE CONFIGURATION" in order.
- If you set incorrect "WRITE CONFIGURATION", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "WRITE CONFIGURATION" except for new BCM.

CONFIGURATION (BCM): Special Repair Requirement

INFOID:0000000006201758

1. WRITING MODE SELECTION

CONSULT-III Configuration

Select "CONFIGURATION" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

2.PERFORM "WRITE CONFIGURATION - CONFIG FILE"

CONSULT-III Configuration

Perform "WRITE CONFIGURATION - Config file".

>> WORK END

3. PERFORM "WRITE CONFIGURATION - MANUAL SELECTION"

(P)CONSULT-III Configuration

- 1. Select "WRITE CONFIGURATION Manual selection".
- Identify the correct model and configuration list. Refer to <u>BCS-4, "CONFIGURATION (BCM): Configuration list".</u>
- 3. Confirm and/or change setting value for each item.
- 4. Select "Setting change".

CAUTION:

Make sure to select "Setting change" even if the indicated configuration of brand new BCM is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model can not be memorized.

5. When "COMMAND FINISHED", select "END".

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

CONFIGURATION (BCM): Configuration list

INFOID:0000000006201759

EXCEPT FOR MEXICO

TK/BD OPEN LGIC

TPMS

TIRE PRESSURE

| MANUAL SETT | TING ITEM | NOTE | |
|------------------------------------|--------------------------------|---|--|
| Items | Setting value | NOTE | |
| KEYLESS ENTRY | $WITH \Leftrightarrow WITHOUT$ | WITH: Without Intelligent Key systemWITHOUT: With Intelligent Key system | |
| I-KEY | WITH ⇔ WITHOUT | WITH: With Intelligent Key system WITHOUT: Without Intelligent Key system | |
| TK/BD OPEN LGIC | MODE2 ⇔ MODE3 | MODE2: Without Intelligent Key system MODE3: With Intelligent Key system | |
| DTRL | WITH ⇔ WITHOUT | WITH: For Canada WITHOUT: Except for Canada | |
| ems which confirm vehicle specific | cations | | |
| AUTO SETTII | NG ITEM | | |
| Items | Setting value | NOTE | |
| UNLOCK WITH SHOCK | WITHOUT | _ | |
| RAP FUNC SET | MODE1 | _ | |
| LIGHT RECOG | MODE6 | _ | |
| REAR WIPER | WITH | _ | |
| SPEED SIGNAL | MODE2 | _ | |
| TPMS | WITH | _ | |
| TIRE PRESSURE | MODE7 | _ | |
| FR FOG LOGIC | MODE1 | _ | |
| DISPLAY STYLE | MODE1 | _ | |
| JTO LOCK&UNLOCK FUNC | WITH | _ | |
| WAKUP SLP LOG | MODE1 | _ | |
| BUCKLE SW | MODE2 | _ | |
| RR WIPER GND | MODE2 | _ | |
| SEAT BLT WARN | WITH | _ | |
| THEFT ALARM | WITH | _ | |
| RMEXICO | | | |
| MANUAL SETT | TING ITEM | NOTE | |
| Items | Setting value | | |
| KEYLESS ENTRY | WITHOUT | _ | |
| AUTO SETTII | NG ITEM | | |
| Items | Setting value | NOTE | |
| UNLOCK WITH SHOCK | WITHOUT | _ | |
| RAP FUNC SET | MODE1 | _ | |
| I-KEY | WITH | _ | |
| DTRL | WITHOUT | _ | |
| LIGHT RECOG | MODE6 | _ | |
| REAR WIPER | WITH | _ | |
| SPEED SIGNAL | MODE2 | _ | |
| TK/DD ODEN LOIC | MODE2 | | |

MODE3

WITHOUT

MODE2

| INSPECTION AND ADJUSTIMENT | | | | | |
|----------------------------|---------------|--------------|--|--|--|
| < BASIC INSPECTION > | | | | | |
| AUTO SETTING ITEM | | NOTE | | | |
| Items | Setting value | NOTE | | | |
| FR FOG LOGIC | MODE1 | - | | | |
| DISPLAY STYLE | MODE1 | - | | | |
| AUTO LOCK&UNLOCK FUNC | WITH | _ | | | |
| WAKUP SLP LOG | MODE1 | _ | | | |
| BUCKLE SW | MODE2 | - | | | |
| RR WIPER GND | MODE2 | - | | | |
| SEAT BLT WARN | WITHOUT | _ | | | |
| THEFT ALARM | WITH | - | | | |

BODY CONTROL SYSTEM

SYSTEM DESCRIPTION

BODY CONTROL SYSTEM

System Description

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OUTLINE

- BCM (Body Control Module) controls various electrical components. It receives the information required from CAN communication and the signals received from each switch and sensor.
- BCM has a combination switch reading function for reading the status of combination switches (light, turn signal, wiper and washer) in addition to functions for controlling the operation of various electrical components. It also has a signal transmission function, for other systems, and a power consumption control function that reduces the power consumption with the ignition switch OFF.
- BCM is equipped with a diagnosis function that operates with CONSULT-III and allows for various settings to be changed.

BCM FUNCTION LIST

| System | Reference page | | |
|---|--|--|--|
| Combination switch reading system | BCS-9, "System Diagram" | | |
| Signal buffer system | BCS-13, "System Diagram" | | |
| Power consumption control system | BCS-14, "System Diagram" | | |
| Auto light system | EXL-10. "System Diagram" (Xenon type headlamp) EXL-150. "System Diagram" (Halogen type headlamp) | | |
| Headlamp system | <u>EXL-8, "System Diagram"</u> (Xenon type headlamp) <u>EXL-148, "System Diagram"</u> (Halogen type headlamp) | | |
| Daytime running light system | EXL-152, "System Diagram" | | |
| Front fog lamp system | EXL-12, "System Diagram" (Xenon type headlamp) EXL-155, "System Diagram" (Halogen type headlamp) | | |
| Turn signal and hazard warning lamp system | EXL-14, "System Diagram" (Xenon type headlamp) EXL-157, "System Diagram" (Halogen type headlamp) | | |
| Parking, license plate and tail lamps system | <u>EXL-16, "System Diagram"</u> (Xenon type headlamp) <u>EXL-159, "System Diagram"</u> (Halogen type headlamp) | | |
| Exterior lamp battery saver system | <u>EXL-18, "System Diagram"</u> (Xenon type headlamp) <u>EXL-161, "System Diagram"</u> (Halogen type headlamp) | | |
| Interior room lamp control system | INIT 5 IIO A A PER | | |
| Luggage room lamp | INL-5, "System Diagram" | | |
| Interior room lamp battery saver system | INL-9, "System Diagram" | | |
| Front wiper and washer system | WW-5, "System Diagram" | | |
| Rear wiper and washer system | WW-10. "System Diagram" | | |
| Warning chime system | WCS-5, "WARNING CHIME SYSTEM : System Diagram" | | |
| Manual air conditioner system | HAC-127, "System Diagram" | | |
| Door lock system | <u>DLK-15, "System Diagram"</u> (With Intelligent Key system) <u>DLK-278, "System Diagram"</u> (Without Intelligent Key system) | | |
| Back door opener function | <u>DLK-40, "System Diagram"</u> (With Intelligent Key system) <u>DLK-288, "System Diagram"</u> (Without Intelligent Key system) | | |
| Nissan vehicle immobilizer system-NATS (NVIS) | <u>SEC-15, "System Diagram"</u> (With Intelligent Key system) <u>SEC-146, "System Diagram"</u> (Without Intelligent Key system) | | |
| Vehicle security (theft warning) system | <u>SEC-20, "System Diagram"</u> (With Intelligent Key system) <u>SEC-150, "System Diagram"</u> (Without Intelligent Key system) | | |
| Panic alarm system | DLK-27, "REMOTE KEYLESS ENTRY FUNCTION: System Dia gram" (With Intelligent Key system) DLK-283, "System Diagram" (Without Intelligent Key system) | | |
| Rear window defogger system | DEF-4, "System Diagram" | | |

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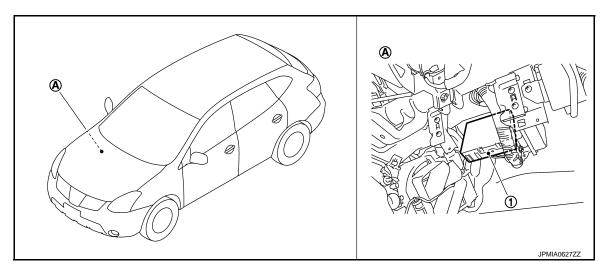
BODY CONTROL SYSTEM

< SYSTEM DESCRIPTION >

| System | | Reference page | |
|--|-----------------------------|---|--|
| Remote keyless entry system (Without Intelligent Key system) | | DLK-283, "System Diagram" | |
| | Door lock system | | |
| Intelligent Key system | Remote keyless entry system | DLK-20, "INTELLIGENT KEY SYSTEM : System Diagram" | |
| | Key reminder | | |
| | Warning function | | |
| Power window system | | PWC-7, "System Diagram" | |
| Retained accessory power (RAP) system | | PWC-7, "System Description" | |
| Tire pressure monitor system (TPMS) - AIR PRESSURE MON-ITOR | | WT-8, "System Diagram" | |

Component Parts Location

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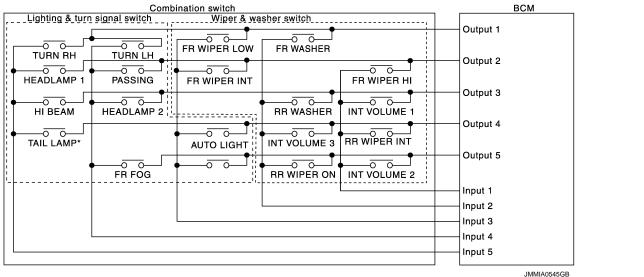


- 1. BCM
- A. Over the glove box

< SYSTEM DESCRIPTION >

COMBINATION SWITCH READING SYSTEM

System Diagram



NOTE:

*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

System Description

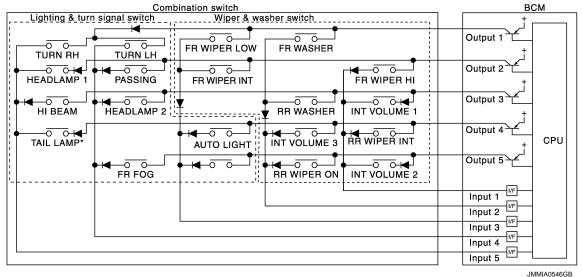
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OUTLINE

- BCM reads the status of the combination switch (light, turn signal, wiper and washer) and recognizes the status of each switch.
- BCM has a combination of 5 output terminals (OUTPUT 1 5) and 5 input terminals (INPUT 1 5). It reads a
 maximum of 20 switch status.

COMBINATION SWITCH MATRIX

Combination switch circuit



NOTE

*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

Combination switch INPUT-OUTPUT system list

| System | INPUT 1 | INPUT 2 | INPUT 3 | INPUT 4 | INPUT 5 |
|----------|-------------|-----------|--------------|---------|------------|
| OUTPUT 1 | _ | FR WASHER | FR WIPER LOW | TURN LH | TURN RH |
| OUTPUT 2 | FR WIPER HI | _ | FR WIPER INT | PASSING | HEADLAMP 1 |

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< SYSTEM DESCRIPTION >

| System | INPUT 1 | INPUT 2 | INPUT 3 | INPUT 4 | INPUT 5 |
|----------|--------------|--------------|------------|------------|-----------|
| OUTPUT 3 | INT VOLUME 1 | RR WASHER | _ | HEADLAMP 2 | HI BEAM |
| OUTPUT 4 | RR WIPER INT | INT VOLUME 3 | AUTO LIGHT | _ | TAIL LAMP |
| OUTPUT 5 | INT VOLUME 2 | RR WIPER ON | _ | FR FOG | _ |

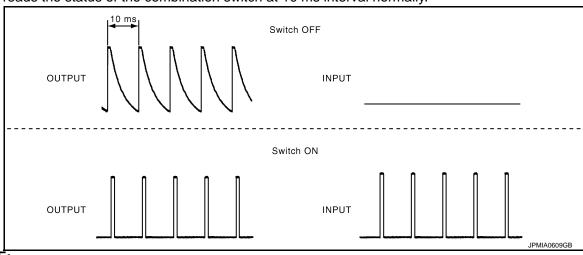
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

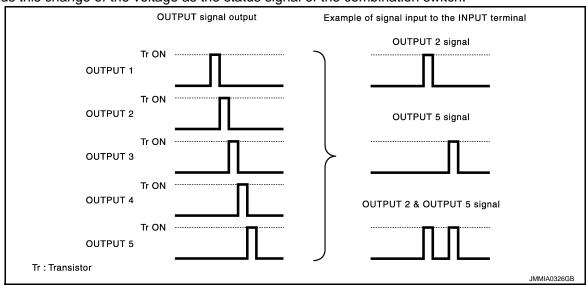
BCM reads the status of the combination switch at 10 ms interval normally.



NOTE:

BCM reads the status of the combination switch at 65 ms interval when BCM is controlled at low power consumption control mode.

- BCM operates as follows and judges the status of the combination switch.
- It operates the transistor on OUTPUT side in the following order: OUTPUT 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5, and outputs voltage waveform.
- The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on INPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.



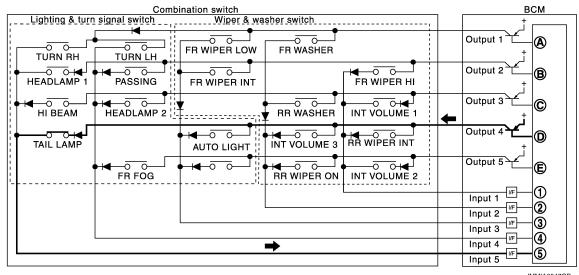
Operation Example

In the following operation example, the combination of the status signals of the combination switch is replaced as follows: INPUT 1 - 5 to "1 - 5" and OUTPUT 1 - 5 to "A - E".

Example 1: When a switch (TAIL LAMP switch) is turned ON

< SYSTEM DESCRIPTION >

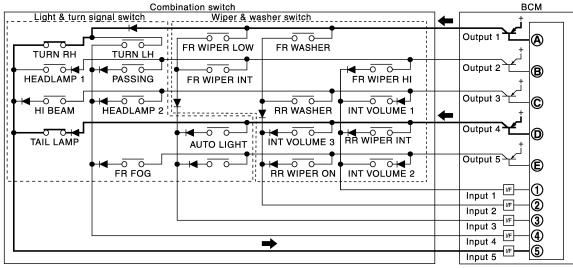
• The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



- BCM detects the combination switch status signal "5D" when the signal of OUTPUT 4 is input to INPUT 5.
- BCM judges that the TAIL LAMP switch is ON when the signal "5D" is detected.

Example 2: When some switches (TURN RH switch, TAIL LAMP switch) are turned ON

 The circuits between OUTPUT 1 and INPUT 5 and between OUTPUT 4 and INPUT 5 are formed when the TURN RH switch and TAIL LAMP switch are turned ON.



- JMMIA0548GB
- BCM detects the combination switch status signal "5AD" when the signals of OUTPUT 1 and OUTPUT 4 are input to INPUT 5.
- BCM judges that the TURN RH switch and TAIL LAMP switch are ON when the signal "5AD" is detected.

WIPER INTERMITTENT DIAL POSITION

BCM judges the wiper intermittent dial 1 - 7 by the status of INT VOLUME 1, 2 and 3 switches.

| Wiper intermittent | Switch status | | |
|--------------------|---------------|--------------|--------------|
| dial position | INT VOLUME 1 | INT VOLUME 2 | INT VOLUME 3 |
| 1 | ON | ON | ON |
| 2 | ON | ON | OFF |
| 3 | ON | OFF | OFF |
| 4 | OFF | OFF | OFF |
| 5 | OFF | OFF | ON |

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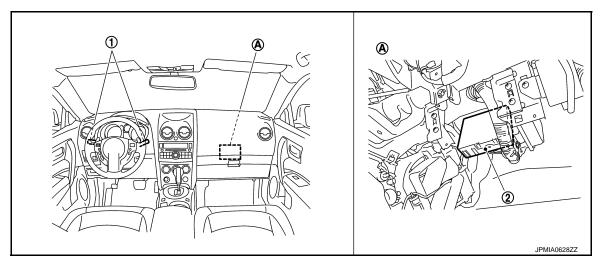
| Wiper intermittent | Switch status | | | |
|--------------------|---------------|--------------|--------------|--|
| dial position | INT VOLUME 1 | INT VOLUME 2 | INT VOLUME 3 | |
| 6 | OFF | ON | ON | |
| 7 | OFF | ON | OFF | |

NOTE:

For details of wiper volume dial position, refer to WW-5, "System Diagram".

Component Parts Location

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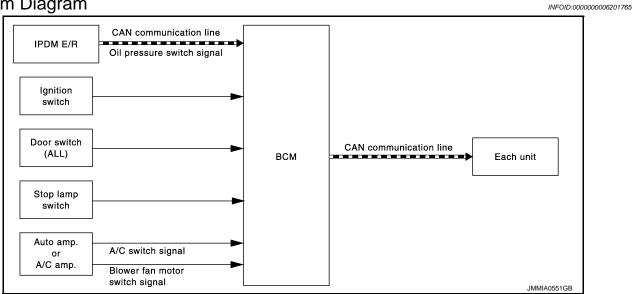
- 1. Combination switch
- A. Over the glove box
- 2. BCM

SIGNAL BUFFER SYSTEM

< SYSTEM DESCRIPTION >

SIGNAL BUFFER SYSTEM

System Diagram



System Description

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OUTLINE

BCM has the signal transmission function that outputs/transmits each input/received signal to each unit.

SIGNAL TRANSMISSION FUNCTION LIST

| Signal name | Input | Output | Description | , |
|--------------------------------|---|---|--|---|
| Ignition switch ON signal | Ignition switch | IPDM E/R (CAN) | Inputs the ignition switch signal and transmits it with CAN communication. | |
| Door switch signal | Any door switch | Combination meter (CAN) IPDM E/R (CAN) Intelligent Key unit (CAN) | Inputs the door switch signal and transmits it with CAN communication. | |
| Stop lamp switch signal | Stop lamp switch | TCM (CAN) | Inputs the stop lamp switch signal and transmits it with CAN communication. | |
| Oil pressure switch signal | IPDM E/R (CAN) | Combination meter (CAN) | Transmits the received oil pressure switch signal with CAN communication. | В |
| A/C switch signal | Auto amp. (automatic air conditioning system) | ECM (CANI) | Inputs the A/C switch signal and transmits it with CAN communication. | |
| Blower fan motor switch signal | A/C amp. (manual air conditioning system) | ECM (CAN) | Inputs the Blower fan motor switch signal and transmits it with CAN communication. | |

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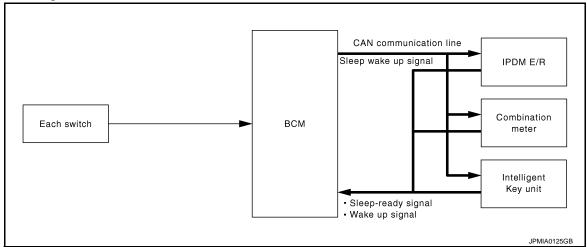
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POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM

System Diagram

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System Description

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OUTLINE

- BCM incorporates a power consumption control function that reduces the power consumption according to the vehicle status.
- BCM switches the status (control mode) by itself with the power saving control function. It performs the sleep request to each unit (IPDM E/R, combination meter and Intelligent Key unit) that operates with the ignition switch OFF.

Normal mode (wake-up)

- CAN communication is normally performed with other units
- Each control with BCM is operating properly

CAN communication sleep mode (CAN sleep)

- CAN transmission is stopped
- Control with BCM only is operating

Low power consumption mode (BCM sleep)

- Low power consumption control is active
- CAN transmission is stopped

LOW POWER CONSUMPTION CONTROL WITH BCM

BCM reduces the power consumption with the following operation in the low power consumption mode.

The reading interval of the each switches changes from 10 ms interval to 65 ms interval.

SLEEP OPERATION

- BCM receives the sleep-ready signal (ready) from IPDM E/R, combination meter and Intelligent Key unit with CAN communication.
- BCM transmits the sleep wake up signal (sleep) to each unit when all of the CAN sleep conditions are fulfilled.
- Each unit stops the transmission of CAN communication with the sleep wake up signal. BCM is in CAN communication sleep mode.
- BCM is in the low power consumption mode and perform the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

POWER CONSUMPTION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

| CAN sleep condition | BCM sleep condition | |
|--|--|--|
| Receiving the sleep-ready signal (ready) from all units Key switch status: No change Ignition switch: OFF Door switch status: No change Door lock status: No change Hazard warning lamp: Not operation Exterior lamp: OFF Warning lamp: Not operation (Except security indicator) Warning chime: Not operation Remote keyless entry receiver: Not receiving Intelligent key unit communication: No operation request (CAN) CONSULT-III communication status: Not communication Vehicle security system alarm: Not operation Stop lamp switch: OFF | The controls only BCM are completed. (Interior room lamp battery saver: Time out etc.) | |

WAKE-UP OPERATION

CONSULT-III communication status: Receiving
 Stop lamp switch: ON (Depress brake pedal)
 Back door opener switch OFF → ON

- BCM transmits sleep wake up signal (wake up) to each unit when any condition listed below is established, and then goes into normal mode from low power consumption mode.
- Each unit starts transmissions with CAN communication by receiving sleep wake up signals. Combination
 meter and Intelligent Key unit transmit wake up signals to BCM with CAN communication to convey the start
 of CAN communication.

Wake-up condition

| BCM wake-up condition | | |
|--|--|--|
| Receiving the sleep-ready signal (Not-ready) from any unit | | |
| Key switch: OFF → ON, ON → OFF | | |
| Ignition switch: OFF → ACC or ON | | |
| Any door switch: OFF → ON, ON → OFF | | |
| Central door lock switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK | | |
| Key cylinder switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK | | |
| Hazard switch: OFF → ON | | |
| Lighting switch: OFF → 1ST or PASS | | |
| Remote keyless entry receiver: Receiving | | |
| Intelligent key unit communication: Receiving operation request (CAN) | | |

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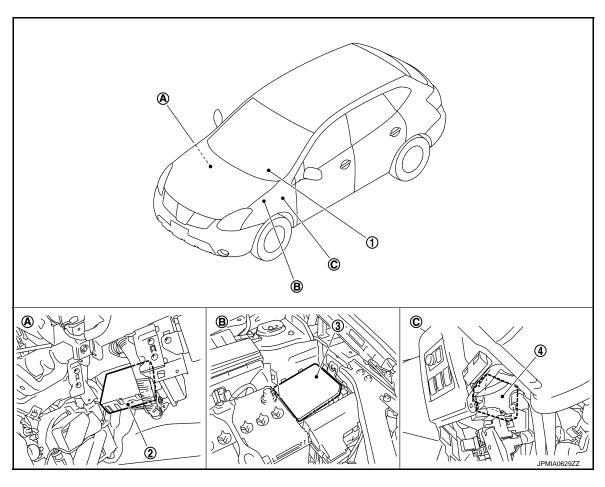
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Component Parts Location

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- 1. Combination meter
- 4. Intelligent Key unit
- A. Over the glove box
- 2. BCM
- B. Engine room (LH)
- 3. IPDM E/R
- C. Over the instrument lower panel (driver side)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

| Diagnosis mode | Function description | |
|--------------------------|---|--|
| ECU Identification | BCM part number is displayed. | |
| Self-Diagnostic Result | Displays the diagnosis results judged by BCM. Refer to BCS-62, "DTC Index". | |
| Data Monitor | BCM input/output signals are displayed. | |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. | |
| Work Support | Changes the setting for each system function. | |
| Configuration | Read and save the vehicle specification. Write the vehicle specification when replacing BCM. | |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. | |

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

| Cuatara | CONSULT-III sub system selection item | Diagnosis mode | | |
|---|---------------------------------------|----------------|--------------|-------------|
| System | | Work Support | Data Monitor | Active Test |
| Door lock | DOOR LOCK | × | × | × |
| Rear window defogger | REAR DEFOGGER | | × | × |
| Warning chime | BUZZER | | × | × |
| Interior room lamp control | INT LAMP | × | × | × |
| Remote keyless entry system | MULTI REMOTE ENT | × | × | × |
| Exterior lamp | HEAD LAMP | × | × | × |
| Wiper and washer | WIPER | × | × | × |
| Turn signal and hazard warning lamps | FLASHER | | × | × |
| Auto air conditioning systemManual air conditioning system | AIR CONDITONER | | × | |
| Intelligent Key system | INTELLIGENT KEY | | × | |
| Combination switch | COMB SW | | × | |
| Body control system | BCM | × | | |
| Immobilizer | IMMU | | × | × |
| Interior room lamp battery saver | BATTERY SAVER | × | × | × |
| Back door open | TRUNK | | × | × |
| Vehicle security system | THEFT ALM | × | × | × |
| RAP system | RETAINED PWR | × | × | × |
| Signal buffer system | SIGNAL BUFFER | | × | × |
| - | FUEL LID* | | | |
| TPMS | TPMS (AIR PRESSURE MONITOR) | × | × | × |
| Panic alarm system | PANIC ALARM | | | × |

^{*:} This item is displayed, but is not function.

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< SYSTEM DESCRIPTION >

DOOR LOCK

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)

INFOID:0000000006548653

BCM CONSULT-III FUNCTION

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

| Diagnosis mode | Function Description | |
|----------------|---|--|
| WORK SUPPORT | Changes the setting for each system function | |
| DATA MONITOR | The BCM input/output signals are displayed | |
| ACTIVE TEST | The signals used to activate each device are forcibly supplied from BCM | |

DATA MONITOR

| Monitor Item | Condition |
|-----------------------|--|
| IGN ON SW | Indicates [ON/OFF] condition of ignition switch in ON position |
| PUSH SW ^{*1} | Indicates [ON/OFF] condition of ignition knob switch |
| KEY ON SW | Indicates [ON/OFF] condition of key switch |
| CDL LOCK SW | Indicates [ON/OFF] condition of door lock and unlock switch |
| CDL UNLOCK SW | Indicates [ON/OFF] condition of door lock and unlock switch |
| DOOR SW-DR | Indicates [ON/OFF] condition of front door switch (driver side) |
| DOOR SW-AS | Indicates [ON/OFF] condition of front door switch (passenger side) |
| DOOR SW-RR | Indicates [ON/OFF] condition of rear door switch RH |
| DOOR SW-RL | Indicates [ON/OFF] condition of rear door switch LH |
| BACK DOOR SW | Indicates [ON/OFF] condition of back door switch |
| KEYLESS LOCK*2 | Indicates [ON/OFF] condition of lock signal from key fob |
| KEYLESS UNLOCK*2 | Indicates [ON/OFF] condition of unlock signal from key fob |
| I-KEY LOCK*1 | Indicates [ON/OFF] condition of lock signal from Intelligent Key |
| I-KEY UNLOCK*1 | Indicates [ON/OFF] condition of unlock signal from Intelligent Key |
| KEY CYL LK-SW | Indicates [ON/OFF] condition of lock signal from key cylinder |
| KEY CYL UN-SW | Indicates [ON/OFF] condition of unlock signal from key cylinder |

^{*1:} For the Intelligent Key equipped vehicle.

ACTIVE TEST

| Test item | Description |
|-----------|--|
| DOOR LOCK | This test is able to check door lock operation [ALL LCK/ALL ULK/DR UNLK/OTR ULK] |

WORK SUPPORT

| Test item | Description | |
|-------------------------------|---|--|
| DOOR LOCK-UNLOCK SET | Select unlock mode can be changed in this mode. Selects ON-OFF of select unlock mode | |
| ANTI-LOCK OUT SET | Key reminder door mode can be changed in this mode. Selects ON-OFF of Key reminder door mode | |
| AUTOMATIC DOOR LOCK SELECT | The automatic door lock function mode can be selected as per the following item in this Mode. VH SPD: All doors are locked when vehicle speed is more than 5 MPH (10km/h) P RANGE: All doors are locked when shifting the selector lever from the P position to other than the P position | |

^{*2:} For the multi remote control system equipped vehicle.

< SYSTEM DESCRIPTION >

| Test item | Description | |
|---------------------------------|---|--|
| AUTOMATIC DOOR UNLOCK SELECT | The automatic door unlock function mode can be selected as per the following item in this Mode. MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2: All doors are unlocked when shifting the selector lever from any position to other than the P to P positions MODE 4: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 5: Driver side door is unlocked when shifting the selector lever from any position to other than the P to P positions | |
| AUTOMATIC DOOR LOCK/UNLOCK SET | The automatic door lock/unlock function can be changed to operate (ON) or not operate (OFF) in this mode. | |

REAR WINDOW DEFOGGER

REAR WINDOW DEFOGGER: CONSULT-III Function (BCM - REAR DEFOGGER)

INFOID:0000000006548694

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Data monitor

| Monitor Item | Description | |
|--------------|---|--|
| REAR DEF SW | Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch. | |
| IGN ON SW | Indicates [ON/OFF] condition of ignition switch in ON position. | |
| ACC ON SW | Indicates [ON/OFF] condition of ignition switch in ACC position. | |

ACTIVE TEST

| Test Item | Description |
|---------------|--|
| REAR DEFOGGER | This test is able to check rear window defogger operation. |

BUZZER

BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000006548696

CONSULT-III FUNCTION (BCM - BUZZER)

| Test item | Diagnosis mode | Description | |
|-----------|----------------|---|--|
| Buzzer | Data Monitor | Displays BCM input data in real time. | |
| | | Operation of electrical loads can be checked by sending driving signal to them. | |

DATA MONITOR

| Display item [Unit] | Description |
|--------------------------|--|
| IGN ON SW [On/Off] | Ignition switch (ON) status judged by ignition power supply input. |
| KEY ON SW [On/Off] | Key switch status. |
| DOOR SW -DR [On/Off] | Front door switch (driver side) status judged by BCM. |
| LIGHT SW 1ST [On/Off] | Lighting switch status judged by the lighting switch signal read with combination switch reading function. |
| BUCKLE SW [On/Off] | Seat belt buckle switch (driver side) status judged by BCM. |

ACTIVE TEST

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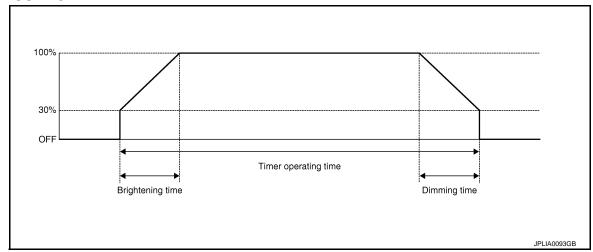
| Display item | Description |
|---------------------|--|
| LIGHT WARN ALM | The light reminder warning chime operation can be checked by operating the relevant function (On/Off). |
| IGN KEY WARN ALM | The key warning chime operation can be checked by operating the relevant function (On/Off). |
| SEAT BELT WARN TEST | The seat belt warning chime operation can be checked by operating the relevant function (On/Off). |

INT LAMP

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

INFOID:0000000006548690

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 INTCOM | Off | Without the interior room lamp timer function | |
| | MODE 1 | 0.5 sec. | |
| | MODE 2* | 1 sec. | |
| | MODE 3 | 2 sec. | |
| ROOM LAMP ON TIME SET | MODE 4 | 3 sec. | Sets the interior room lamp gradual brightening time. |
| | MODE 5 | 4 sec. | |
| | MODE 6 | 5 sec. | |
| | MODE 7 | 0 sec. | |
| | MODE 1 | 0.5 sec. | |
| | MODE 2* | 1 sec. | |
| | MODE 3 | 2 sec. | |
| ROOM LAMP OFF TIME SET | MODE 4 | 3 sec. | Sets the interior room lamp gradual dimming time. |
| | MODE 5 | 4 sec. | |
| | MODE 6 | 5 sec. | |
| | MODE 7 | 0 sec. | |

^{*:} Factory setting

DATA MONITOR

< SYSTEM DESCRIPTION >

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

ACTIVE TEST

| Test item | Operation | Description | | |
|--------------------|-----------|---|--|--|
| INT LAMP | On | Outputs the interior room lamp control signal to turn the interior room lamps ON. [Map lamp, room lamp (when applicable lamps switch is in DOOR position.)] | | |
| | Off | Stops the interior room lamp control signal to turn the interior room lamps OFF. | | |
| IGN ILLUM | On | Outputs the ignition keyhole illumination control signal to turn ignition keyhole illumination ON. | | |
| IGN ILLUW | Off | Stops the ignition keyhole illumination control signal to turn ignition keyhole illumination OFF. | | |
| STEP LAMP TEST | On | NOTE: | | |
| STEP LAWP TEST | Off | The item is indicated, but not operate. | | |
| LUGGAGE LAMP TEST | On | Outputs the luggage room lamp control signal to turn luggage room lamp ON. | | |
| LUGGAGE LAWIF TEST | Off | Stops the luggage room lamp control signal to turn luggage room lamp OFF. | | |

MULTIREMOTE ENT

MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)

INFOID:0000000006548695

BCM CONSULT-III FUNCTION

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< SYSTEM DESCRIPTION >

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

| Diagnosis mode | Function Description |
|----------------|--|
| WORK SUPPORT | Changes the setting for each system function. |
| DATA MONITOR | The BCM input/output signals are displayed. |
| ACTIVE TEST | The signals used to activate each device are forcibly supplied from BCM. |

DATA MONITOR

| Monitor Item | Condition | | | |
|---------------------|---|--|--|--|
| IGN ON SW | Indicates [ON/OFF] condition of ignition switch in ON position. | | | |
| KEY ON SW | Indicates [ON/OFF] condition of key switch. | | | |
| ACC ON SW | Indicates [ON/OFF] condition of ignition switch in ACC position. | | | |
| KEYKESS LOCK | Indicates [ON/OFF] condition of lock signal from key fob. | | | |
| KEYLESS UNLOCK | Indicates [ON/OFF] condition of unlock signal from key fob. | | | |
| KEYLESS PANIC | Indicates [ON/OFF] condition of panic alarm signal from key fob. | | | |
| DOOR SW-DR | Indicates [ON/OFF] condition of front door switch (driver side). | | | |
| DOOR SW-AS | Indicates [ON/OFF] condition of front door switch (passenger side). | | | |
| DOOR SW-RR | Indicates [ON/OFF] condition of rear door switch RH. | | | |
| DOOR SW-RL | Indicates [ON/OFF] condition of rear door switch LH. | | | |
| BACK DOOR SW | Indicates [ON/OFF] condition of back door switch. | | | |
| CDL LOCK SW | Indicates [ON/OFF] condition of door lock and unlock switch. | | | |
| CDL UNLOCK SW | Indicates [ON/OFF] condition of door lock and unlock switch. | | | |
| RKE LOCK AND UNLOCK | Indicates [ON/OFF] condition of lock and unlock signal from keyfob. | | | |
| MEMORY 1 | Indicates [ON/OFF] condition of remote controller ID code registration. | | | |
| MEMORY 2 | Indicates [ON/OFF] condition of remote controller ID code registration. | | | |
| MEMORY 3 | Indicates [ON/OFF] condition of remote controller ID code registration. | | | |
| MEMORY 4 | Indicates [ON/OFF] condition of remote controller ID code registration. | | | |
| MEMORY 5 | Indicates [ON/OFF] condition of remote controller ID code registration. | | | |

ACTIVE TEST

| Test item | Description |
|-----------|--|
| DOOR LOCK | This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK OTHER UNLOCK]. |
| FLASHER | This test is able to check flasher operation [LH/RH/OFF]. |
| HORN | This test is able to check horn operation [ON/OFF]. |

WORK SUPPORT

| Test item | Description |
|-----------------|--|
| HAZARD LAMP SET | Answer back function (hazard) mode can be changed in this mode. For the detail of the setting. |
| HORN CHIRP SET | Answer back function (horn) mode can be changed in this mode. For the detail of the setting. |

< SYSTEM DESCRIPTION >

| Test item | Description | | |
|----------------|--|--|--|
| AUTO LOCK SET | Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 2 minutes • MODE 3: 3 minutes • MODE 4: 4 minutes • MODE 5: 5 minutes | | |
| PANIC ALRM SET | Panic alarm operation mode can be changed in this mode. | | |

HEADLAMP

HEADLAMP : CONSULT-III Function (BCM - HEAD LAMP)

INFOID:0000000006548689

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WORK SUPPORT

| Service item Setting item | | Setting | | |
|---------------------------|---------|--|--|--|
| | MODE 1* | Normal | | |
| CUSTOM A/LIGHT SETTING | MODE 2 | More sensitive setting than normal setting (Turns ON earlier than normal operation.) | | |
| COSTONIA/LIGITI SETTING | MODE 3 | More sensitive setting than MODE 2 (Turns ON earlier than MODE2.) | | |
| | MODE 4 | Less sensitive eration.) | setting than normal setting (Turns ON later than normal op- | |
| BATTERY SAVER SET | On* | With the exterior lamp battery saver function | | |
| DATTERT SAVER SET | Off | Without the exterior lamp battery saver function | | |
| | MODE 1* | 45 sec. | | |
| | MODE 2 | Without the function | | |
| | MODE 3 | 30 sec | | |
| ILL DELAY SET | MODE 4 | 60 sec | Sets delay timer function timer operation time. (All doors closed) | |
| | MODE 5 | 90 sec | (will doors dioded) | |
| | MODE 6 | 120 sec | | |
| | MODE 7 | 150 sec | | |
| | MODE 8 | 180 sec | | |

^{*:} Factory setting

DATA MONITOR

| Monitor item [Unit] | Description |
|------------------------|--|
| IGN ON SW [On/Off] | Ignition switch (ON) status judged from IGN signal (ignition power supply) |
| ACC ON SW [On/Off] | Ignition switch (ACC) status judged from ACC signal (ACC power supply) |

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< SYSTEM DESCRIPTION >

| Monitor item [Unit] | Description | | |
|----------------------------|--|--|--|
| HI BEAM SW [On/Off] | | | |
| HEAD LAMP SW1 [On/Off] | | | |
| HEAD LAMP SW2 [On/Off] | | | |
| LIGHT SW 1ST [On/Off] | Each switch status that BCM judges from the combination switch reading function | | |
| PASSING SW [On/Off] | | | |
| FR FOG SW [On/Off] | | | |
| AUTO LIGHT SW [On/Off] | | | |
| RR FOG SW [On/Off] | NOTE: The item is indicated, but not monitored | | |
| DOOR SW-DR [On/Off] | The switch status input from front door switch (driver side) | | |
| DOOR SW-AS [On/Off] | The switch status input from front door switch (passenger side) | | |
| DOOR SW-RR [On/Off] | The switch status input from rear door switch RH | | |
| DOOR SW- RL [On/Off] | The switch status input from rear door switch LH | | |
| BACK DOOR SW [On/Off] | The switch status input from back door switch | | |
| TURN SIGNAL R [On/Off] | Each switch status that PCM judges from the combination switch reading function | | |
| TURN SIGNAL L [On/Off] | Each switch status that BCM judges from the combination switch reading function | | |
| ENGINE RUNNING [On/Off] | The engine status received from ECM with CAN communication | | |
| PKB SW [On/Off] | The parking brake switch status received from combination meter with CAN communication | | |
| CARGO LAMP SW [On/Off] | NOTE: The item is indicated, but not monitored | | |
| OPTICAL SENSOR [V] | The value of exterior brightness voltage input from the optical sensor | | |

ACTIVE TEST

| Test item | Operation | Description |
|-----------|-----------|--|
| TAIL LAMP | On | Transmits the position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON. |
| | Off | Stops the tail lamp request signal transmission. |
| HEAD LAMP | Hi | Transmits the high beam request signal with CAN communication to turn the headlamp (HI). |
| | Lo | Transmits the low beam request signal with CAN communication to turn the headlamp (LO). |
| | Off | Stops the high & low beam request signal transmission. |

< SYSTEM DESCRIPTION >

| Test item | Operation | Description |
|-----------------------|-----------|---|
| FR FOG LAMP | On | Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON. |
| | Off | Stops the front fog lights request signal transmission. |
| DAYTIME RUNNING LIGHT | On | NOTE: |
| | Off | The item indicated, but not operate |

WIPER

WIPER: CONSULT-III Function (BCM - WIPER)

INFOID:0000000006548692

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WORK SUPPORT

| Service item | Setting item | Description |
|--------------|---|--|
| On* | With vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position) | |
| SETTING | Off | Without vehicle speed (Front wiper intermittent time linked with the wiper intermittent dial position) |

^{*:} Factory setting

DATA MONITOR

| Monitor Item [Unit] | Description |
|---------------------------|---|
| IGN ON SW [On/Off] | Ignition switch ON status judged from ignition power supply. |
| IGN SW CAN [On/Off] | Ignition switch ON status received from IPDM E/R with CAN communication. |
| FR WIPER HI [On/Off] | |
| FR WIPER LOW [On/Off] | Fook purities electric that DOM indices from the combination quitely vesting from the |
| FR WIPER INT [On/Off] | Each switch status that BCM judges from the combination switch reading function. |
| FR WASHER SW [On/Off] | |
| INT VOLUME [1 – 7] | Each switch status that BCM judges from the combination switch reading function. |
| FR WIPER STOP [On/Off] | Front wiper motor (stop position) status received from IPDM E/R with CAN communication. |
| VEHICLE SPEED [km/h] | The value of the vehicle speed signal received from combination meter with CAN communication. |
| RR WIPER ON [On/Off] | |
| RR WIPER INT [On/Off] | Each switch status that BCM judges from the combination switch reading function. |
| RR WASHER SW [On/Off] | |
| RR WIPER STOP [On/Off] | Rear wiper motor (stop position) status input from the rear wiper motor. |
| H/L WASH SW [On/Off] | NOTE: The item is indicated, but not monitored. |

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< SYSTEM DESCRIPTION >

| Test item | Operation | Description |
|-----------|-----------|---|
| FR WIPER | Hi | Transmits the front wiper request signal (HI) to IPDM E/R with CAN communication to operate the front wiper HI operation. |
| | Lo | Transmits the front wiper request signal (LO) to IPDM E/R with CAN communication to operate the front wiper LO operation. |
| | INT | Transmits the front wiper request signal (INT) to IPDM E/R with CAN communication to operate the front wiper INT operation. |
| | Off | Stops transmitting the front wiper request signal to stop the front wiper operation. |
| RR WIPER | On | Outputs the voltage to operate the rear wiper motor. |
| | Off | Stops the voltage to stop. |

AIR CONDITIONER

AIR CONDITIONER: CONSULT-III Function (BCM - AUTO AIR CONDITIONER)

INFOID:0000000006548698

DATA MONITOR

Display Item List

| Monitor Item [Unit] | | Contents |
|---------------------|----------|--|
| IGN SW | [On/Off] | Displays [ignition switch position (On)/OFF, ACC position (Off)] status as judged form ignition switch signal. |
| FAN ON SIG | [On/Off] | Displays [FAN (On)/FAN (Off)] status as judged form blower fan motor switch signal. |
| AIR COND SW | [On/Off] | Displays [COMP (On)/COMP (Off)] status as judged form air conditioner switch signal. |

FLASHER

FLASHER: CONSULT-III Function (BCM - FLASHER)

INFOID:0000000006548697

DATA MONITOR

| Monitor item [Unit] | Description |
|---------------------------|--|
| IGN ON SW [On/Off] | Ignition switch (ON) status judged from IGN signal (ignition power supply) |
| HAZARD SW [On/Off] | The switch status input from the hazard switch |
| TURN SIGNAL R [On/Off] | Each switch condition that BCM judges from the combination switch reading function |
| TURN SIGNAL L [On/Off] | - Each switch condition that BCM judges from the combination switch reading function |
| BRAKE SW [On/Off] | The switch status input from the stop lamp switch |

ACTIVE TEST

| Test item | Operation | Description |
|-----------|-----------|--|
| | RH | Outputs the voltage to turn the right side turn signal lamps ON. |
| FLASHER | LH | Outputs the voltage to turn the left side turn signal lamps ON. |
| | Off | Stops the voltage to turn the turn signal lamps OFF. |

INTELLIGENT KEY

< SYSTEM DESCRIPTION >

INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)

BCM CONSULT-III FUNCTION

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

| Diagnosis mode | Function Description |
|----------------|--|
| DATA MONITOR | The BCM input/output signals are displayed |

DATA MONITOR

| Monitor Item | Condition | |
|--------------|--|--|
| PUSH SW | Indicates [ON/OFF] condition of ignition knob switch | |
| I-KEY LOCK | Indicates [ON/OFF] condition of lock signal from Intelligent Key | |
| I-KEY UNLOCK | Indicates [ON/OFF] condition of unlock signal from Intelligent Key | |
| I-KEY TRUNK | This item is indicated, but not monitored | |
| I-KEY PW DWN | This item is indicated, but not monitored | |
| I-KEY PANIC | Indicates [ON/OFF] condition of panic alarm | |

COMB SW

COMB SW: CONSULT-III Function (BCM - COMB SW)

function.

[Off/On]

INFOID:0000000006201781

DATA MONITOR

| Monitor item [UNIT] | Description |
|----------------------------|---|
| TURN SIGNAL R [Off/On] | Displays the status of "TURN RH" switch in combination switch judged by the combination switch reading function. |
| TURN SIGNAL L [Off/On] | Displays the status of the "TURN LH" switch in combination switch judged by the combination switch reading function. |
| HI BEAM SW [Off/On] | Displays the status of "HI BEAM" switch in combination switch judged by the combination switch reading function. |
| HEAD LAMP SW 1 [Off/On] | Displays the status of "HEADLAMP 1" switch in combination switch judged by the combination switch reading function. |
| HEAD LAMP SW 2 [Off/On] | Displays the status of "HEADLAMP 2" switch in combination switch judged by the combination switch reading function. |
| LIGHT SW 1ST [Off/On] | Displays the status of "TAIL LAMP" switch in combination switch judged by the combination switch reading function. |
| PASSING SW [Off/On] | Displays the status of "PASSING" switch in combination switch judged by the combination switch reading function. |
| AUTO LIGHT SW [Off/On] | Displays the status of "AUTO LIGHT" switch in combination switch judged by the combination switch reading function. |
| FR FOG SW [Off/On] | Displays the status of "FR FOG" switch in combination switch judged by the combination switch reading function. |
| RR FOG SW [Off/On] | NOTE: The item is indicated, but not monitored. |
| FR WIPER HI [Off/On] | Displays the status of "FR WIPER HI" switch in combination switch judged by the combination switch reading function. |
| FR WIPER LOW [Off/On] | Displays the status of "FR WIPER LOW" switch in combination switch judged by the combination switch reading function. |
| FR WIPER INT [Off/On] | Displays the status of "FR WIPER INT" switch in combination switch judged by the combination switch reading function. |
| FR WASHER SW | Displays the status of "FR WASHER" switch in combination switch judged by the combination switch reading |

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< SYSTEM DESCRIPTION >

| Monitor item [UNIT] | Description |
|--------------------------|---|
| INT VOLUME [1 - 7] | Displays the status of wiper intermittent dial position judged by the combination switch reading function. |
| RR WIPER ON [Off/On] | Displays the status of "RR WIPER ON" switch in combination switch judged by the combination switch reading function. |
| RR WIPER INT [Off/On] | Displays the status of "RR WIPER INT" switch in combination switch judged by the combination switch reading function. |
| RR WASHER SW [Off/On] | Displays the status of "RR WASHER" switch in combination switch judged by the combination switch reading function. |

BCM

BCM: CONSULT-III Function (BCM - BCM)

INFOID:0000000006201782

WORK SUPPORT

| Item | Description |
|---------------------|---|
| RESET SETTING VALUE | Return a value set with WORK SUPPORT of each system to a default value in factory shipment. |

IMMU

IMMU: CONSULT-III Function (BCM - IMMU)

INFOID:0000000006548657

APPLICATION ITEM

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

| Diagnosis mode | Function Description |
|----------------|--|
| DATA MONITOR | The BCM input/output signals are displayed. |
| ACTIVE TEST | The signals used to activate each device are forcibly supplied from BCM. |

DATA MONITOR

| Monitor item | Content |
|--------------|---|
| IGN ON SW | Indicates [ON/OFF] condition of ignition switch in ON position. |

ACTIVE TEST

| Test item | Description |
|-----------|---|
| THEFT IND | This test is able to check security indicator operation [ON/OFF]. |

BATTERY SAVER

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

INFOID:0000000006548691

WORK SUPPORT

| Service item | Setting item | | Setting |
|---------------------|--------------|---------|---|
| ROOM LAMP TIMER SET | MODE 1* | 30 min. | Sets the interior room lamp battery saver timer operating |
| NOOW EAWN THEN SET | MODE 2 | 60 min. | time. |

^{*:} Factory setting

DATA MONITOR

< SYSTEM DESCRIPTION >

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

ACTIVE TEST

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

^{*:} Each lamp switch is in ON position.

TRUNK

TRUNK: CONSULT-III Function (BCM - TRUNK)

INFOID:0000000006548655

APPLICATION ITEM

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

| Diagnosis mode | Function Description |
|----------------|--|
| DATA MONITOR | The BCM input/output signals are displayed |
| ACTIVE TEST | The signals used to activate each device are forcibly supplied from Intelligent Key unit |

DATA MONITOR

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< SYSTEM DESCRIPTION >

| Monitor Item | Condition |
|---------------|---|
| IGN ON SW | Indicates [ON/OFF] condition of ignition switch in ON position |
| I-KEY TRUNK | This item is indicated, but not monitored |
| TRNK OPNR SW | Indicates [ON/OFF] condition of back door opener switch |
| VEHICLE SPEED | Displays the vehicle speed signal received from combination meter by numerical value [km/h] |

ACTIVE TEST

| Test item | Description |
|-----------------|--|
| TRUNK/BACK DOOR | This test is able to check back door opener operation [ON/OFF] |

THEFT ALM

THEFT ALM: CONSULT-III Function (BCM - THEFT ALM)

INFOID:0000000006548663

APPLICATION ITEM

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

| Diagnosis mode | Function Description |
|----------------|--|
| WORK SUPPORT | Changes the setting for each system function. |
| DATA MONITOR | The BCM input/output signals are displayed. |
| ACTIVE TEST | The signals used to activate each device are forcibly supplied from BCM. |

DATA MONITOR

| Monitor Item | Condition |
|------------------|---|
| IGN ON SW | Indicates [ON/OFF] condition of ignition switch in ON position. |
| ACC ON SW | Indicates [ON/OFF] condition of ignition switch in ACC position. |
| KEY ON SW | Indicates [ON/OFF] condition of key switch. |
| KEYLESS LOCK*2 | Indicates [ON/OFF] condition of lock signal from key fob. |
| KEYLESS UNLOCK*2 | Indicates [ON/OFF] condition of unlock signal from key fob. |
| I-KEY LOCK*1 | Indicates [ON/OFF] condition of lock signal from Intelligent Key. |
| I-KEY UNLOCK*1 | Indicates [ON/OFF] condition of unlock signal from Intelligent Key. |
| TRUNK OPNR SW | Indicates [ON/OFF] condition of back door opener switch. |
| TRUNK CYL SW | NOTE: The item is indicated, but not monitored. |
| TRNK OPNR MNTR | NOTE: The item is indicated, but not monitored. |
| HOOD SW | Indicates [ON/OFF] condition of hood switch. |
| DOOR SW-DR | Indicates [ON/OFF] condition of front door switch (driver side). |
| DOOR SW-AS | Indicates [ON/OFF] condition of front door switch (passenger side). |
| DOOR SW-RR | Indicates [ON/OFF] condition of rear door switch RH. |
| DOOR SW-RL | Indicates [ON/OFF] condition of rear door switch LH. |
| BACK DOOR SW | Indicates [ON/OFF] condition of back door switch. |
| KEY CYL LK-SW | Indicates [ON/OFF] condition of key cylinder switch. |
| KEY CYL UN-SW | Indicates [ON/OFF] condition of key cylinder switch. |
| CDL LOCK SW | Indicates [ON/OFF] condition of door lock and unlock switch. |
| CDL UNLOCK SW | Indicates [ON/OFF] condition of door lock and unlock switch. |

< SYSTEM DESCRIPTION >

| * - | ١. | For | vehicle | equipped | with | Intelligent | Kev. |
|-----|----|------|----------|----------|------|-------------|--------|
| | • | . 0. | VOITIOIC | Cquipped | | mitomgont | i toy. |

^{*2:} For the vehicle equipped with remote key less entry system.

ACTIVE TEST

| Test item | Description |
|-----------------------|---|
| THEFT IND | This test is able to check security indicator operation [ON/OFF]. |
| VEHICLE SECURITY HORN | This test is able to check horn operation [ON]. |
| HEAD LAMP(HI) | This test is able to check head lamp (HI) operation [ON/OFF]. |

WORK SUPPORT

| Test item | Description |
|--------------------|---|
| SECURITY ALARM SET | Vehicle security function mode can be changed in this mode. ON: Vehicle security function is ON. OFF: Vehicle security function is OFF. |
| THEFT ALM TRG | The switch which triggered vehicle security system is recorded. This mode can be able to confirm and erase the record of vehicle security system. |

RETAIND PWR

RETAIND PWR: CONSULT-III Function (BCM - RETAINED PWR)

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Data monitor

| Monitor Item | Description |
|--------------|---|
| DOOR SW-DR | Indicates [ON/OFF] condition of driver side door switch. |
| DOOR SW-AS | Indicates [ON/OFF] condition of passenger side door switch. |

SIGNAL BUFFER

SIGNAL BUFFER: CONSULT-III Function (BCM - SIGNAL BUFFER)

| INFOID:0000000006201788 | |
|-------------------------|--|

DATA MONITOR

| Monitor item [UNIT] | Description |
|--------------------------|---|
| OIL PRESS SW [Off/On] | Displays the status of oil pressure switch received from IPDM E/R with CAN communication. |

ACTIVE TEST

| Test item | Operation | Description |
|-----------------|-----------|---|
| OIL PRESSURE SW | On | Transmits the oil pressure switch signal with CAN communication to illuminate the oil pressure warning lamp in the combination meter. |
| | Off | Stops the oil pressure switch signal transmission. |

AIR PRESSURE MONITOR

AIR PRESSURE MONITOR: Component Description

| INIEO ID:000000000E49700 | |
|--------------------------|--|

| Component parts | Function |
|--|------------------------------|
| BCM (Body Control Module) | BCS-7, "System Description". |
| Transmitter | WT-18, "Description". |
| Remote keyless entry receiver (Tire pressure receiver) | WT-24, "Description". |

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< SYSTEM DESCRIPTION >

| Component parts | Function |
|--------------------------------|--|
| Turn signal lamp | ID registration of each wheel has been completed, turn signal lamp flashes. |
| Combination meter | Controls a low tire pressure warning lamp, turn signal lamp, and buzzer by signals from the BCM. |
| Low tire pressure warning lamp | WT-26, "Description" I. |

AIR PRESSURE MONITOR: CONSULT-III Function (BCM - AIR PRESSURE MONITOR)

WORK SUPPORT MODE

ID Read

The registered ID number is displayed.

ID Regist

Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

SELF-DIAG RESULTS MODE

Operation Procedure

Refer to BCS-62, "DTC Index".

DATA MONITOR MODE

Screen of data monitor mode is displayed.

NOTE:

When malfunction is detected, CONSULT-III perform REAL-TIME DIAGNOSIS.

Also, any malfunction detected while in this mode will be displayed at real time.

Display item list

| Monitor | Condition | Specification | |
|--|--|---|--|
| VEHICLE SPEED | Drive vehicle | Vehicle speed (km/h or MPH) | |
| AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL | Drive vehicle for a few minutes. or Ignition switch ON and transmitter activation tool is transmitting activation signals. | Tire pressure (kPa or Psi) | |
| ID REGST FL ID REGST FR ID REGST RR ID REGST RL | | Registration ID: Done No registration: Yet | |
| WARNING LAMP | Ignition switch ON | Low tire pressure warning lamp ON: On Low tire pressure warning lamp OFF: Off | |
| BUZZER | | Buzzer in combination meter ON: On Buzzer in combination meter OFF: Off | |

NOTE:

Before performing the self-diagnosis, be sure to register the ID, or erase the actual malfunction location may be different from that displayed on CONSULT-III.

ACTIVE TEST MODE

NOTE:

Before performing the self-diagnosis, be sure to register the ID, or erase the actual malfunction may be different from that displayed on CONSULT-III.

TEST ITEM LIST

| Test item | Content | |
|-------------------|--|--|
| WARNING LAMP | This test is able to check to check that the low tire pressure warning lamp turns on. | |
| ID REGIST WARNING | This test is able to check to check that the buzzer sounds or the low tire pressure warning lamp turns on. | |
| FLAT TIRE WARNING | This test is able to check to check that the buzzer sounds. | |
| HORN | This test is able to check to check that the horn sounds. | |

< SYSTEM DESCRIPTION >

| Test item | Content | - |
|------------------|--|---|
| FLASHER | This test is able to check to check that each turn signal lamp turns on. | - |
| RUNFLAT TIRE W/L | NOTE: This item is displayed, but cannot be use this item. | - |

PANIC ALARM

PANIC ALARM: CONSULT-III Function (BCM - PANIC ALARM)

INFOID:0000000006548656

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APPLICATION ITEM

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

| Diagnosis mode | Function Description |
|----------------|---|
| ACTIVE TEST | The signals used to activate each device are forcibly supplied from BCM |

ACTIVE TEST

| Test item | Description |
|----------------|--|
| HEAD LAMP (HI) | This test is able to check head lamp (hi) operation [ON/OFF] |
| PANIC ALARM | This test is able to check panic alarm operation [ON/OFF] |

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000006201792

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

| DTC | DTC Detection Condition | Possible cause |
|-------------------------|--|--------------------------|
| U1000: CAN COMM CIRCUIT | When BCM cannot communicate CAN communication signal continuously for 2 seconds or more. | CAN communication system |

Diagnosis Procedure

INFOID:0000000006201794

1.PERFORM SELF DIAGNOSTIC

- 1. Turn the ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result" of BCM.

Is DTC "U1000" displayed?

YES >> Refer to LAN-15, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-45, "Intermittent Incident".

C1735 IGN CIRCUIT OPEN

< DTC/CIRCUIT DIAGNOSIS >

C1735 IGN CIRCUIT OPEN

DTC Logic

DTC DETECTION LOGIC

| DTC | CONSULT-III display description | DTC Detection Condition | Possible cause | С |
|-------|---------------------------------|---|---|---|
| C1735 | IGN CIRCUIT OPEN | Detected following signals are different for 60 seconds; Ignition switch ON signal inputted from ignition switch Ignition relay status signal received from IPDM E/R with CAN communication | Harness or connector (Ignition power supply circuit) BCM IPDM E/R | D |

NOTE:

BCM may detect that ignition switch is OFF when IGN power supply voltage is low.

DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION

- Erase DTC.
- Turn the ignition switch OFF.
- Perform the "Self Diagnostic Result" of CONSULT-III, when passed 2 seconds or more after the ignition switch is turned ON.

Is any DTC detected?

YES >> Refer to BCS-35, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK BCM IGNITION POWER SUPPLY CIRCUIT

Check BCM ignition power supply circuit. Refer to BCS-36, "Diagnosis Procedure".

Is the circuit normal?

YES >> GO TO 2

NO >> Repair the malfunctioning part.

2.CHECK IPDM E/R POWER SUPPLY CIRCUIT

Check IPDM E/R power supply circuit. Refer to PCS-15, "Diagnosis Procedure".

Is the circuit normal?

YES >> GO TO 3.

NO >> Repair the malfunctioning part.

3.CHECK IPDM E/R IGNITION RELAY STATUS

(E)CONSULT-III DATA MONITOR

- 1. Select "IGN RLY" of IPDM E/R data monitor item.
- 2. With operating the ignition switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|--------------|-----------------|-----|----------------|
| IGN RLY | Ignition switch | OFF | Off |
| | | ON | On |

Is the item status normal?

YES >> Replace BCM. Refer to BCS-66, "Exploded View".

NO >> Replace IPDM E/R. Refer to PCS-29. "Exploded View".

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000006201797

1. CHECK FUSES AND FUSIBLE LINK

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

| Signal name | Fuses and fusible link No. | |
|-----------------------|----------------------------|--|
| Battery power supply | 10 | |
| battery power supply | J | |
| ACC power supply | 20 | |
| Ignition power supply | 1 | |

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and the ground.

| В | CM | | Continuity | |
|--------------------|----|--------|------------|--|
| Connector Terminal | | Ground | Continuity | |
| M67 | 67 | | Existed | |

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000006201798

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1. CHECK OUTPUT 1 - 5 CIRCUIT FOR OPEN

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

| System | BCM | | Combinat | Continuity | |
|----------|--------------------|----|--------------------|------------|------------|
| System | Connector Terminal | | Connector Terminal | | Continuity |
| OUTPUT 1 | | 36 | | 1 | |
| OUTPUT 2 | | 35 | | 2 | |
| OUTPUT 3 | M65 | 34 | M27 | 3 | Existed |
| OUTPUT 4 | | 33 | | 4 | |
| OUTPUT 5 | | 32 | | 5 | |

Does continuity exist?

YES >> GO TO 2.

NO >> Repair the harnesses or connectors.

2.CHECK OUTPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and the ground.

| System | ВСМ | | | Continuity |
|----------|-----------|----------|--------|-------------|
| System | Connector | Terminal | | Continuity |
| OUTPUT 1 | | 36 | | |
| OUTPUT 2 | | 35 | Ground | |
| OUTPUT 3 | M65 | 34 | | Not existed |
| OUTPUT 4 | | 33 | | |
| OUTPUT 5 | | 32 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 3.

3.CHECK BCM OUTPUT VOLTAGE

1. Connect BCM connector.

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

| | | Terminals | 5 | |
|----------|-----------|-----------|--------|---------------|
| Cuatam | (+) | | (-) | Voltage |
| System | System | | | (Approx.) |
| | Connector | Terminal | | |
| OUTPUT 1 | | 36 | | |
| OUTPUT 2 | | 35 | Ground | Refer to BCS- |
| OUTPUT 3 | M65 | 34 | | 42, "Refer- |
| OUTPUT 4 | | 33 | | ence Value". |
| OUTPUT 5 | | 32 | | |

Is the measurement value normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-66, "Exploded View".

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK COMBINATION SWITCH

Check combination switch. Refer to BCS-41, "Description".

Is the check result normal?

YES >> Replace BCM. Refer to BCS-66, "Exploded View".

NO >> Replace the combination switch (applicable parts).

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

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1. CHECK INPUT 1 - 5 CIRCUIT FOR OPEN

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

| System | BCM | | Combinat | Continuity | |
|---------|-----------|----------|-----------|------------|------------|
| System | Connector | Terminal | Connector | Terminal | Continuity |
| INPUT 1 | | 6 | | 6 | |
| INPUT 2 | | 5 | | 7 | |
| INPUT 3 | M65 | 4 | M27 | 10 | Existed |
| INPUT 4 | | 3 | | 9 | |
| INPUT 5 | | 2 | | 8 | |

Does continuity exist?

YES >> GO TO 2.

NO >> Repair the harnesses or connectors.

2.CHECK INPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and the ground.

| System | BCM | | | Continuity |
|---------|-----------|----------|--------|-------------|
| System | Connector | Terminal | | Continuity |
| INPUT 1 | | 6 | | |
| INPUT 2 | | 5 | Ground | |
| INPUT 3 | M65 | 4 | | Not existed |
| INPUT 4 | | 3 | | |
| INPUT 5 | | 2 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 3.

3. CHECK BCM INPUT SIGNAL

- 1. Connect BCM and combination switch connectors.
- 2. Turn ON any switch in the system that is malfunction.
- 3. Check voltage between BCM harness connector and the ground.

| System | (+) | | (-) | Voltage |
|---------|-----------|----------|--------|---------------|
| System | BCM | | | (Approx.) |
| | Connector | Terminal | | |
| INPUT 1 | | 6 | | |
| INPUT 2 | | 5 | Ground | Refer to BCS- |
| INPUT 3 | M65 | 4 | | 42, "Refer- |
| INPUT 4 | | 3 | | ence Value". |
| INPUT 5 | | 2 | | |

Is the measurement value normal?

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Yes >> Replace BCM. Refer to BCS-66, "Exploded View".

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

No >> GO TO 4.

4. CHECK COMBINATION SWITCH

Check combination switch. Refer to BCS-41, "Description".

Is the check result normal?

YES

>> Replace BCM. Refer to <u>BCS-66, "Exploded View"</u>. >> Replace the combination switch (applicable parts). NO

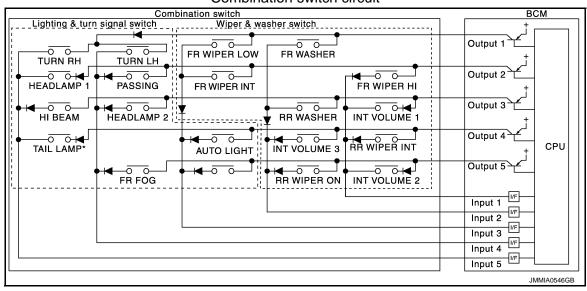
COMBINATION SWITCH

Description

COMBINATION SWITCH MATRIX

Combination switch consists of INPUT circuit and OUTPUT circuit.

Combination switch circuit



Combination switch OUTPUT-INPUT system list

| | on an action of the original action | | | | | | | | |
|----------|-------------------------------------|--------------|--------------|---------|------------|--|--|--|--|
| System | INPUT 1 | INPUT 2 | INPUT 3 | INPUT 4 | INPUT 5 | | | | |
| OUTPUT 1 | _ | FR WASHER | FR WIPER LOW | TURN LH | TURN RH | | | | |
| OUTPUT 2 | FR WIPER HI | _ | FR WIPER INT | PASSING | HEADLAMP 1 | | | | |
| OUTPUT 3 | INT VOLUME 1 | RR WASHER | — HEADLAMP 2 | | HI BEAM | | | | |
| OUTPUT 4 | RR WIPER INT | INT VOLUME 3 | AUTO LIGHT | _ | TAIL LAMP | | | | |
| OUTPUT 5 | INT VOLUME 2 | RR WIPER ON | _ | FR FOG | _ | | | | |

NOTE:

Headlamp has a dual system switch.

Diagnosis Procedure

1. CHECK LIGHT & TURN SIGNAL SWITCH

Check operation with normal light & turn signal switch installed.

Does it operate normally?

YES >> Replace the light & turn signal switch.

NO >> GO TO 2.

2.CHECK WIPER & WASHER SWITCH

Check operation with normal wiper & washer switch installed.

Does it operate normally?

YES >> Replace the wiper & washer switch.

NO >> GO TO 3.

3.CHECK SWITCH BASE (SPIRAL CABLE)

Check operation with normal switch base (spiral cable) installed.

Does it operate normally?

YES >> Replace the switch base (spiral cable).

NO >> Combination switch is normal.

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | Value/Status |
|-----------------|---|--------------|
| IGN ON SW | Ignition switch OFF or ACC | Off |
| IGIN OIN SVV | Ignition switch ON | On |
| KEY ON OW | Mechanical key is removed from key cylinder | Off |
| KEY ON SW | Mechanical key is inserted to key cylinder | On |
| CDL LOCK SW | Door lock/unlock switch does not operate | Off |
| CDL LOCK SW | Press door lock/unlock switch to the lock side | On |
| CDL UNLOCK SW | Door lock/unlock switch does not operate | Off |
| | Press door lock/unlock switch to the unlock side | On |
| DOOR SW-DR | Driver's door closed | Off |
| | Driver's door opened | On |
| DOOD CW AC | Passenger door closed | Off |
| DOOR SW-AS | Passenger door opened | On |
| DOOD OW DD | Rear RH door closed | Off |
| DOOR SW-RR | Rear RH door opened | On |
| DOOD CW DI | Rear LH door closed | Off |
| DOOR SW-RL | Rear LH door opened | On |
| DACK DOOD CW | Back door closed | Off |
| BACK DOOR SW | Back door opened | On |
| KEY CYL LK-SW | Other than driver door key cylinder LOCK position | Off |
| | Driver door key cylinder LOCK position | On |
| KEY CYL LINI CW | Other than driver door key cylinder UNLOCK position | Off |
| KEY CYL UN-SW | Driver door key cylinder UNLOCK position | On |
| KEYLESS LOCK | "LOCK" button of key fob is not pressed | Off |
| RETLESS LOCK | "LOCK" button of key fob is pressed | On |
| KEYLESS UNLOCK | "UNLOCK" button of key fob is not pressed | Off |
| RETLESS UNLOCK | "UNLOCK" button of key fob is pressed | On |
| I-KEY LOCK | "LOCK" button of Intelligent Key or door request switch are not pressed | Off |
| | "LOCK" button of Intelligent Key or door request switch are pressed | On |
| LIZEX LINILOGIZ | "UNLOCK" button of Intelligent Key or door request switch are not pressed | Off |
| I-KEY UNLOCK | "UNLOCK" button of Intelligent Key or door request switch are pressed | On |
| 400 011 0111 | Ignition switch OFF | Off |
| ACC ON SW | Ignition switch ACC or ON | On |
| DEAD DEE OW | Rear window defogger switch OFF | Off |
| REAR DEF SW | Rear window defogger switch ON | On |
| LICHTOWACT | Lighting switch OFF | Off |
| LIGHT SW 1ST | Lighting switch 1ST | On |

| Monitor Item | Condition | Value/Status | |
|------------------|---|--------------|--------------|
| BUCKLE SW | The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF] | Off | _ |
| SUCKLE SW | The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON] | On | _ |
| VEVI ECC DANIC | PANIC button of key fob is not pressed | Off | _ |
| KEYLESS PANIC | PANIC button of key fob is pressed | On | _ |
| KEYLESS TRUNK | NOTE: The item is indicated, but not monitored. | Off | _ |
| TRNK OPN MNTR | NOTE: The item is indicated, but not monitored. | Off | |
| DVE I OK TINI OK | LOCK/UNLOCK button of key fob is not pressed and held simultaneously | Off | _ |
| RKE LCK-UNLCK | LOCK/UNLOCK button of key fob is pressed and held simultaneously | On | |
| DVE VEED LINEY | UNLOCK button of key fob is not pressed UNLOCK button of key fob is pressed and held | | _ |
| RNE REEY UNLK | UNLOCK button of key fob is pressed and held | On | |
| LI DEAM OW | Lighting switch OFF | Off | _ |
| HI BEAM SW | Lighting switch HI | On | |
| HEAD LAMP SW 1 | Lighting switch OFF | Off | |
| | Lighting switch 2ND | On | |
| HEAD LAMP SW 2 | Lighting switch OFF | Off | |
| | Lighting switch 2ND | On | _ |
| AUTO LIGHT SW | Other than lighting switch AUTO | Off | |
| -010 LIGHT 3W | Lighting switch AUTO | On | |
| DASSING SW | Other than lighting switch PASS | Off | |
| PASSING SW | Lighting switch PASS | On | _ |
| R FOG SW | Front fog lamp switch OFF | Off | _ |
| K FOG SW | Front fog lamp switch ON | On | _ |
| RR FOG SW | NOTE: The item is indicated, but not monitored. | Off | |
| TUDNI SICNAL D | Turn signal switch OFF | Off | _ |
| TURN SIGNAL R | Turn signal switch RH | On | |
| ΓURN SIGNAL L | Turn signal switch OFF | Off | |
| I UNIN SIGNAL L | Turn signal switch LH | On | |
| ENGINE RUN | Engine stopped | Off | |
| | Engine running | On | _ |
| PKB SW | Parking brake switch is OFF | Off | |
| | Parking brake switch is ON | On | _ |
| CARGO LAMP SW | NOTE: The item is indicated, but not monitored. | Off | - - |
| OPTICAL SENSOR | Bright outside of the vehicle | Close to 5 V | _ |
| OF FIGAL SENSOR | Dark outside of the vehicle | Close to 0 V | _ |
| GN SW CAN | Ignition switch OFF or ACC | Off | _ |
| GN SW CAN | Ignition switch ON | On | _ |
| FR WIPER HI | Front wiper switch OFF | Off | _ |
| TR VVIPER TI | Front wiper switch HI | On | |

| Monitor Item | Condition | Value/Status |
|----------------|---|-----------------------------------|
| FR WIPER LOW | Front wiper switch OFF | Off |
| FR WIFER LOW | Front wiper switch LO | On |
| FR WIPER INT | Front wiper switch OFF | Off |
| FR WIPER INT | Front wiper switch INT | On |
| FR WASHER SW | Front washer switch OFF | Off |
| FR WASHER SW | Front washer switch ON | On |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | 1 - 7 |
| ED WIDED OTOD | Any position other than front wiper stop position | Off |
| FR WIPER STOP | Front wiper stop position | On |
| VEHICLE SPEED | While driving | Equivalent to speedometer reading |
| | Rear wiper switch OFF | Off |
| RR WIPER ON | Rear wiper switch ON | On |
| | Rear wiper switch OFF | Off |
| RR WIPER INT | Rear wiper switch INT | On |
| | Rear washer switch OFF | Off |
| RR WASHER SW | Rear washer switch ON | On |
| | Rear wiper stop position | Off |
| RR WIPER STOP | Other than rear wiper stop position | On |
| RR WIPER STP2 | NOTE: The item is indicated, but not monitored. | Off |
| H/L WASH SW | NOTE: The item is indicated, but not monitored. | Off |
| | Hazard switch OFF | Off |
| HAZARD SW | Hazard switch ON | On |
| | Brake pedal is not depressed | Off |
| BRAKE SW | Brake pedal is depressed | On |
| | Blower fan motor switch OFF | Off |
| FAN ON SIG | Blower fan motor switch ON (other than OFF) | On |
| ALD COALD OW | A/C conditioner OFF (A/C switch indicator OFF) (Automatic air conditioner) A/C switch OFF (Manual air conditioner) | Off |
| AIR COND SW | A/C conditioner ON (A/C switch indicator ON) (Automatic air conditioner) A/C switch ON (Manual air conditioner) | On |
| I-KEY TRUNK | NOTE: The item is indicated, but not monitored. | Off |
| LICEN DIA DIAN | UNLOCK button of Intelligent Key is not pressed | Off |
| I-KEY PW DWN | UNLOCK button of Intelligent Key is pressed and held | On |
| L VEV DANIC | PANIC button of Intelligent Key is not pressed | Off |
| I-KEY PANIC | PANIC button of Intelligent Key is pressed | On |
| DIICH CW | Return to ignition switch to "LOCK" position | Off |
| PUSH SW | Press ignition switch | On |
| TONIC OPNID OW | When back door opener switch is not pressed | Off |
| TRNK OPNR SW | When back door opener switch is pressed | On |
| TRUNK CYL SW | NOTE: The item is indicated, but not monitored. | Off |

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|------------------|--|-------------------------------|
| HOOD SW | Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed | Off |
| | Open the hood | On |
| OIL PRESS SW | Ignition switch OFF or ACC Engine running | Off |
| | Ignition switch ON | On |
| AIR PRESS FL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front LH tire |
| AIR PRESS FR | Air pressure of front RH tire | |
| AIR PRESS RR | Air pressure of rear RH tire | |
| AIR PRESS RL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear LH tire |
| ID REGST FL1 | ID of front LH tire transmitter is registered | Done |
| ID REGST FLT | ID of front LH tire transmitter is not registered | Yet |
| ID REGST FR1 | ID of front RH tire transmitter is registered | Done |
| ID REGGIT KT | 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 REGGI REI | ID of rear LH tire transmitter is not registered | Yet |
| WARNING LAMP | Tire pressure indicator OFF | Off |
| VVAIXINING LAWIP | Tire pressure indicator ON | On |
| BUZZER | Tire pressure warning alarm is not sounding | Off |
| DULLER | Tire pressure warning alarm is sounding | On |

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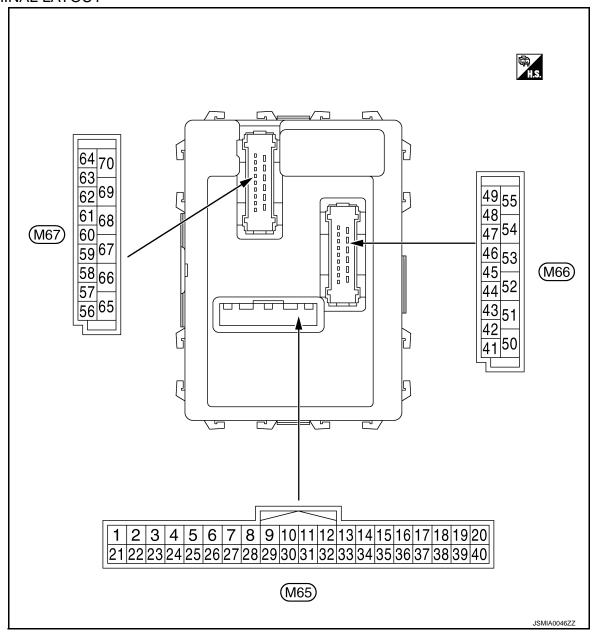
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TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-27, "COMB SW: CONSULT-III Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System Diagram".

| | Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) | |
|--|------------------------------|--------|--------------------|----------------------|-----------|-------------------|--------------------|-----------------|
| | | | Signal name Input/ | | | | | |
| | + | _ | Signal Hame | Output | | | V 11 - 7 | |
| | 1 | Ground | , ()IIIDIII) | Output | Output | Ignition key hole | OFF | Battery voltage |
| | (V) | Ground | | Ground Uttput Uttput | ON | 0 V | | |

| | nal No. color) | Description | | | • | Value | А |
|-------------|-------------------|----------------------------|----------------------------------|-------------------------------------|---|---|----|
| + | - COIOF) | Signal name | Input/ Output | | Condition | (Approx.) | |
| | | | | | All switch OFF | 0 V | В |
| | | | | | Turn signal switch RH | | D |
| | | | | | Lighting switch HI | (V) 15 | |
| 2 (G) | Ground | Combination switch INPUT 5 | Input | Combination switch (Wiper intermit- | Lighting switch 1ST | 10 5 0 ++10ms PKIB4959J 1.0 V | C |
| | | | tent dial 4) | Lighting switch 2ND | (V) 15 10 5 0 ++10ms PKIB4953J 2.0 V | E F G | |
| | | | | | All switch OFF | 0 V | |
| | | | | | Turn signal switch LH | | |
| | | | | Lighting switch PASS | (V) 15 | Н | |
| 3 (Y) | Ground | Combination switch INPUT 4 | Input | Combination switch (Wiper intermit- | Lighting switch 2ND | 10 5 0 → +10ms PKIB4959J 1.0 V | J |
| (Y) INPUT 4 | | | tent dial 4) | Front fog lamp switch ON | (V) 15 10 5 0 +-10ms PKIB4955J 0.8 V | K | |
| | | | | | All switch OFF | 0 V | ВС |
| | | | | | Lighting switch AUTO | | |
| | | | | Combination | Front wiper switch LO | (V) 15 | Ν |
| 4 | Ground | Combination switch | Input | switch | Front wiper switch MIST | 10 | |
| | INPUT 3 | input | (Wiper intermit- tent dial 4) | Front wiper switch INT | 0 → +10ms | O | |
| | | | | | | PKIB4959J | P |

| | nal No. | Description | Ī | | • "" | Value | |
|----------|---------|----------------------------|------------------|--------------------|--|---|--|
| + | color) | Signal name | Input/ Output | | Condition | (Approx.) | |
| | | | | | All switch OFF (Wiper intermittent dial 4) | 0 V | |
| | | | | | Front washer switch (Wiper intermittent dial 4) | (V) 15 | |
| | | | | | Rear washer ON (Wiper intermittent dial 4) | 10 5 0 | |
| 5 (R) | Ground | Combination switch INPUT 2 | Input | Combination switch | Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 | ++10ms PKIB4959J | |
| | | | | | Rear wiper switch ON (Wiper intermittent dial 4) | (V) 15 10 5 0 | |
| | | | | | | PKIB4955J 0.8 V | |
| | | | | | All switch OFF (Wiper intermittent dial 4) | 0 V | |
| | | | | | Front wiper switch HI (Wiper intermittent dial 4) | (V) 15 | |
| | | | | | Rear wiper switch INT (Wiper intermittent dial 4) | 15 10 5 0 | |
| | | | | | Wiper intermittent dial 3 (All switch OFF) | +10ms PKIB4959J | |
| 6 (P) | Ground | Combination switch INPUT 1 | Input | Combination switch | Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 | (V) 15 10 5 0 ++10ms PKIB4952J 1.7 V | |
| | | | | | Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7 | (V) 15 10 5 0 ++10ms | |

| | inal No. e color) | Description | | | 0 100 | Value |
|------------|----------------------|--|------------------|-------------------------------|--|---|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| 7 (L) | Ground | Door key cylinder switch UNLOCK sig- nal | Input | Door key cylin- der switch | NEUTRAL position | (V) 15 10 5 0 ***************************** |
| | | | | | UNLOCK position | 0.0 V |
| 8 (R) | Ground | Door key cylinder switch LOCK signal | Input | Door key cylin- der switch | NEUTRAL position | (V) ₁₅ 10 5 0 |
| | | | | | | JPMIA0587GB 8.0 - 8.5 V |
| | | | | | LOCK position | 0 V |
| 9 | Ground | Stop lamp switch | Input | Stop lamp | OFF (Brake pedal is not depressed) | 0 V |
| (R) | Giodila | Stop lamp switch | mput | switch | ON (Brake pedal is depressed) | Battery voltage |
| 10 | Ground | Rear window defog- | Input | Rear window | Not pressed | Battery voltage |
| (SB) | | ger switch | | defogger switch | Pressed | 0 V |
| 11 (SB) | Ground | Ignition switch ACC | Input | Ignition switch O | | 0 V Battery voltage |
| 12 (P) | Ground | Passenger door switch | Input | Passenger door switch | OFF (When passenger door closed) | (V) ₁₅ 10 5 0 + 10ms JPMIA0586GB 7.5 - 8.0 V |
| | | | | | ON (When passenger door opened) | 0 V |
| 13 (LG) | Ground | Rear door switch RH | Input | Rear door switch RH | OFF (When rear door RH closed) | (V) 15 10 5 0 ****************************** |
| | | | | | ON (When rear door RH opened) | 0 V |

| | nal No. color) | Description | | | | Value |
|-------------------------|-------------------|---|------------------|---|--|---|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) |
| 14 | Ground | Optical sensor | Input | Ignition switch | When bright outside of the vehicle | Close to 5 V |
| (G) | Ground | Optical scrisor | mput | ON | When dark outside of the vehicle | Close to 0 V |
| 17 (W) | Ground | Optical sensor pow- er supply | Output | Ignition switch | OFF, ACC | 0 V |
| 18 [*] (O) | Ground | Remote keyless entry receiver ground | Input | Ignition switch O | ON N | 5 V 0 V |
| | | Remote keyless en- | | Without Intelligent Key system | At any condition | 5 V |
| 19 [*] (V) | | try receiver power | Input | With Intelligent Key system | Ignition switch OFF For 3 seconds after ignition switch OFF to ON 3 seconds or later after ignitions | 0 V |
| | | | | | nition switch OFF to ON | 5 V |
| | | ound Remote keyless entry receiver signal | Input | Without Intelligent Key system With Intelligent Key system | At any condition | (V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| 20 [*] (GR) | Ground | | | | Ignition switch OFF For 3 seconds after ignition switch OFF to ON | 0 V |
| | | | | | 3 seconds or later after ig- nition switch OFF to ON | (V) 15 10 5 0 JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition. |
| 21 (G) | Ground | NATS antenna amp. | Input/ Output | Just after insertin | ng ignition key in key cylinder | Pointer of tester should move |
| | | | | | ON | 0 V |
| 23 (B) | Ground | Security indicator signal | Input | Security indicator | Blinking (Ignition switch OFF) | (V) ₁₅ 10 5 0 → +1s JPMIA0590GB |
| | | | | | OFF | 12.0 V Battery voltage |
| | | | | | OI I | Dattery voltage |

| | inal No. e color) | Description | 1 | | Condition | Value | |
|------------|----------------------|-----------------------------|------------------|-------------------------|--|--|--|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) | |
| 25 (BR) | Ground | NATS antenna amp. | Input/ Output | Just after insertir | ng ignition key in key cylinder | Pointer of tester should move | |
| 27 (Y) | Ground | A/C switch | Input | Ignition switch O | A/C switch OFF A/C switch ON | (V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10 | |
| | | | | Ignition switch O | | 0 V | |
| 28 (LG) | Ground | Blower fan switch | Input | Ignition switch ON | Blower fan switch OFF | (V) ₁₅ 10 5 0 ***10ms JPMIA0592GB 7.0 - 7.5 V | |
| 20 | | | | Blower fan switch ON | 0 V | | |
| 29 | Ground | Hazard switch | Input | Hazard switch | OFF | Battery voltage | |
| (W) | Glodila | Tiazaid Switch | IIIput | Tiazaid Switch | ON | 0 V | |
| 30 (G) | Ground | Back door opener switch | Input | Back door opener switch | Not pressed Pressed | Battery voltage 0 V | |
| | | | | | All switch OFF (Wiper intermittent dial 4) | (V) 15 10 5 0 + 10ms PKIB4960J 7.2 V | |
| 32 (BR) | Ground | Combination switch OUTPUT 5 | Output | Combination switch | Front fog lamp switch ON (Wiper intermittent dial 4) Rear wiper switch ON (Wiper intermittent dial 4) Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7 | (V) 15 10 5 0 ++10ms PKIB4956J 1.0 V | |

| | nal No. | Description | | | | Value |
|------------|---------|-----------------------------|------------------|--------------------|---|---|
| + (Wire | color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | All switch OFF (Wiper intermittent dial 4) | (V) 15 10 5 0 + 10ms PKIB4960J 7.2 V |
| 33 (GR) | Ground | Combination switch OUTPUT 4 | Output | Combination switch | Lighting switch 1ST (Wiper intermittent dial 4) | |
| | | | | | Lighting switch AUTO (Wiper intermittent dial 4) | (V) 15 10 |
| | | | | | Rear wiper switch INT (Wiper intermittent dial 4) | 5 |
| | | | | | Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 | РКIВ4958J 1.2 V |
| | | | | | All switch OFF (Wiper intermittent dial 4) | (V) 15 10 5 0 + 10ms PKIB4960J 7.2 V |
| 34 (L) | Ground | Combination switch OUTPUT 3 | Output | Combination switch | Lighting switch 2ND (Wiper intermittent dial 4) | |
| | | | | | Lighting switch HI (Wiper intermittent dial 4) | (V) 15 10 |
| | | | | | Rear washer switch ON (Wiper intermittent dial 4) | 5 |
| | | | | | Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 | + 10ms РКIВ4958J 1.2 V |

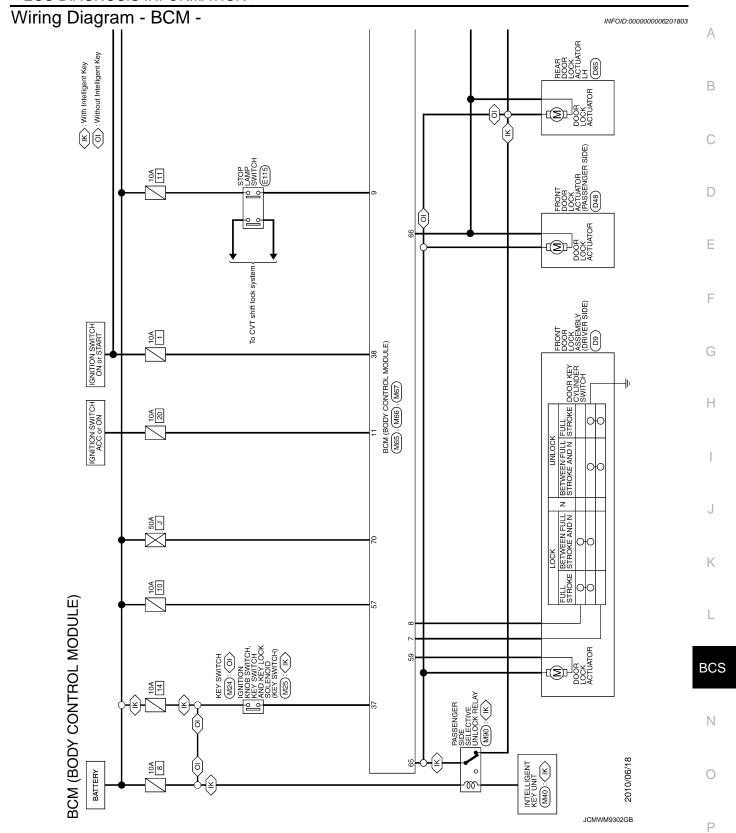
| | inal No. e color) | Description | | | 0 177 | Value | |
|-----------|----------------------|-----------------------------|------------------|-------------------------------------|---|--|--|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) | |
| | | | | Combination | All switch OFF | (V) 15 10 5 0 → 10ms PKIB4960J | |
| 35 (B) | Ground | Combination switch OUTPUT 2 | Output | Combination switch (Wiper intermit- | 11.11.11.11.11.11.11.11.11.11.11.11.11. | 7.2 V | |
| (D) | | 001F012 | | tent dial 4) | Lighting switch 2ND | (V) | |
| | | | | | Lighting switch PASS | (V) 15 10 | |
| | | | | | Front wiper switch INT | 5 | |
| | | | | Front wiper switch HI | +10ms PKIB4958J | | |
| | | | | | | 1.2 V | |
| | | | | Combination | All switch OFF | (V) 15 10 5 0 + 10ms PKIB4960J | |
| 36 (V) | Ground | Combination switch OUTPUT 1 | Output | switch (Wiper intermit- | Turn signal switch RH | 7.2 V | |
| | | | | tent dial 4) | Turn signal switch LH | (V) | |
| | | | | | Front wiper switch LO | (V) 15 10 5 | |
| | | | | | (Front wiper switch MIST) Front washer switch ON | 0 → 10ms | |
| | | | | | | PKIB4958J 1.2 V | |
| 37 | Ground | Key switch | Input | Insert mechanica der | al key into ignition key cylin- | Battery voltage | |
| (LG) | Ciodila | Toy Switch | πραι | Remove mechar cylinder | nical key from ignition key | 0 V | |
| 38 | Ground | Ignition switch ON | Input | Ignition switch O | FF or ACC | 0 V | |
| (G) | Giouria | Ignition switch ON | ιπραι | Ignition switch O | N or START | Battery voltage | |
| 39 (L) | Ground | CAN-H | Input/ Output | | _ | _ | |
| 40 (P) | Ground | CAN-L | Input/ Output | | _ | _ | |

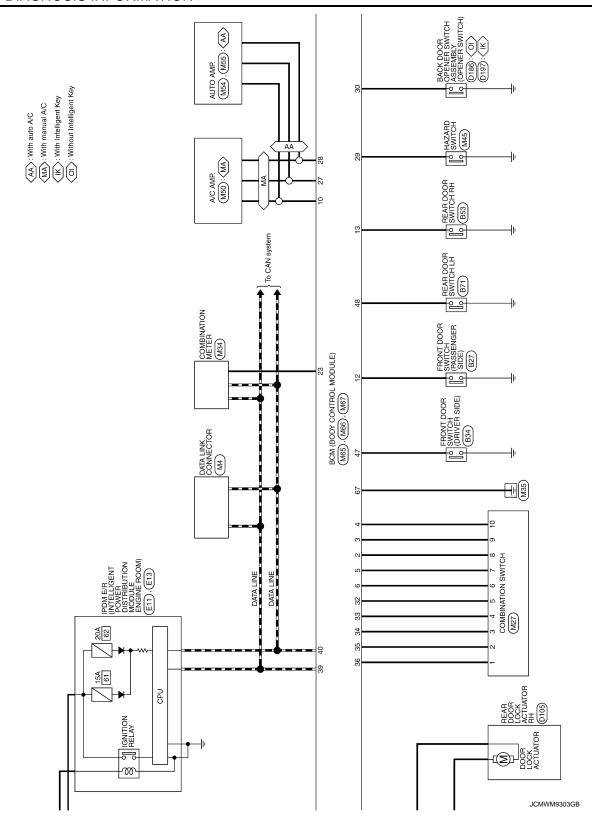
| | nal No. color) | Description | | | 0 1111 | Value |
|------------|-------------------|---|------------------|-----------------------------|--|--|
| + (vvire | - color) | Signal name | Input/ Output | | Condition | (Approx.) |
| 43 (V) | Ground | Back door switch | Input | Back door switch | OFF (When back door closed) | (V) ₁₅ 10 5 0 ++10ms JPMIA0593GB 9.5 - 10.0 V |
| | | | | | ON (When back door opened) | 0 V |
| 4.4 | | | | Impition quitab | Rear wiper stop position | 0 V |
| 44 (B) | Ground | Rear wiper auto stop | Input | Ignition switch ON | Any position other than rear wiper stop position | Battery voltage |
| 45 (P) | Ground | Door lock and unlock switch LOCK signal | Input | Door lock and unlock switch | NEUTRAL position | (V) 15 10 5 0 → 10ms JPMIA0591GB 1.6 V |
| | | | | | LOCK position | 0 V |
| 46 (BR) | Ground | Door lock and unlock switch UNLOCK sig- nal | Input | Door lock and unlock switch | NEUTRAL position | (V) ₁₅ 10 5 0 ++10ms JPMIA0591GB 1.6 V |
| | | | | | UNLOCK position | 0 V |
| 47 (W) | Ground | Driver door switch | Input | Driver door switch | OFF (When driver door closed) | (V) 15 10 5 0 PMIA0587GB 8.0 - 8.5 V |
| | | | | | (When driver door opened) | 0 V |

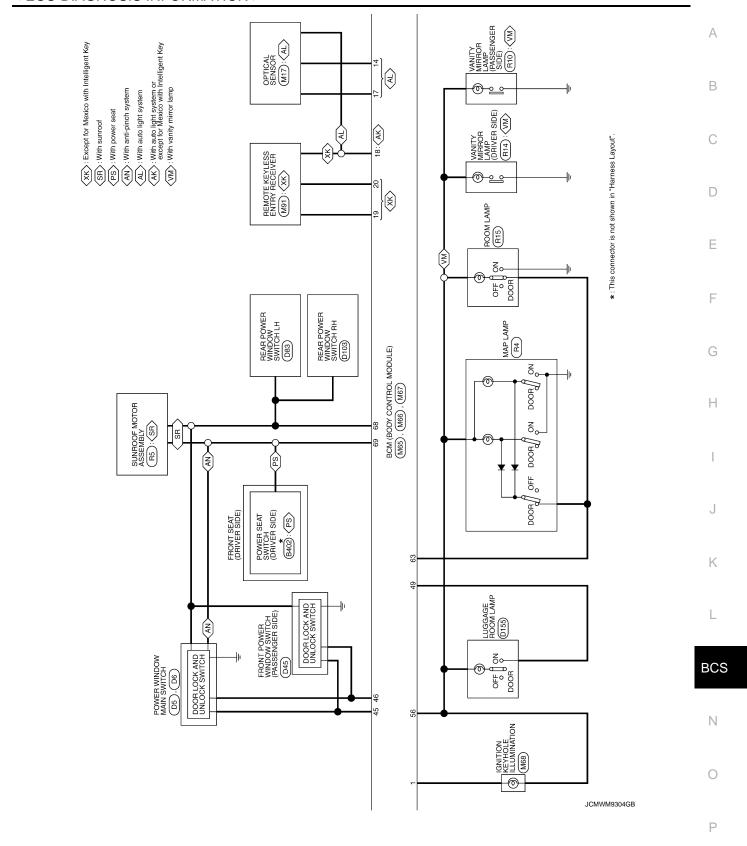
| Terminal No. Description (Wire color) | | | O Be | Value | | | |
|---------------------------------------|-----------------------|---------------------------|-------------------------------------|--|---|---|--------|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) | A |
| 48 (GR) | Ground | Rear door switch LH | Input | Rear door switch LH | OFF (When rear door LH closed) | (V) ₁₅ 10 5 0 *** 10ms JPMIA0594GB 8.5 - 9.0 V | B C |
| | | | ON (When rear door LH opened) | 0 V | E | | |
| 49 | 0 | Luggage room lamp | Outrot | Luggage room | Back door is closed (Luggage room lamp turns OFF) | Battery voltage | F |
| (L) | Ground | control | 2001 position | Back door is opened (Luggage room lamp turns ON) | 0 V | | |
| 53 | | D. J. J. | 0.1.1 | Back door | Not pressed (Back door actuator is activated) | 0 V | - G |
| (V) | Ground Back door open | Output | opener switch | Pressed (Back door actuator is activated) | Battery voltage | H | |
| 55 | Cround | Dear winer meter | Outrout | Ignition switch | Rear wiper switch OFF | 0 V | - |
| (SB) | Ground | Rear wiper motor | Output | ON | Rear wiper switch ON | Battery voltage | = |
| 56 | Ground | Interior room lamp | Output | After passing the saver operation | e interior room lamp battery time | 0 V | J |
| (Y) | Cround | power supply | Guiput | | ter passing the interior room er operation time | Battery voltage | 1/ |
| 57 (G) | Ground | Battery power sup- ply | Input | Ignition switch O | FF | Battery voltage | K |
| 59 | Ground | Driver door UN- | Outsut | Driver deer | UNLOCK (Actuator is activated) | Battery voltage | L |
| (L) | Giouna | LOCK | Output | Driver door | Other then UNLOCK (Actuator is not activated) | 0 V | |
| | | | | | Turn signal switch OFF | 0 V | ВС |
| 60 (BR) | Ground | Turn signal LH | Output | Ignition switch ON | Turn signal switch LH | (V) 15 10 5 0 1s | N |

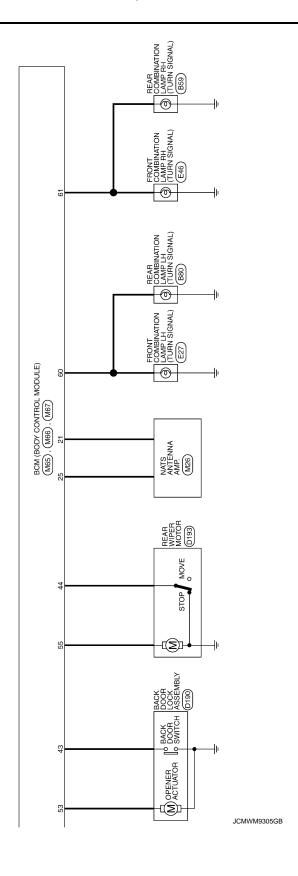
| | nal No. | Description | | | | Value |
|------------|---------|---------------------------|------------------|-----------------------|---|---|
| (Wire | color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | Turn signal switch OFF | 0 V |
| 61 (GR) | Ground | Turn signal RH | Output | Ignition switch ON | Turn signal switch RH | (V) 15 10 5 0 PKIC6370E 6.0 V |
| 63 | Ground | Interior room lamp | Output | Interior room | OFF | Battery voltage |
| (R) | Ground | timer control | Output | lamp | ON | 0 V |
| 65 | Ground | All doors LOCK | Output | All doors | LOCK (Actuator is activated) | Battery voltage |
| (V) | Ground | | | | Other then LOCK (Actuator is not activated) | 0 V |
| 66 | Crownd | Passenger door and | Outrout | Passenger door | UNLOCK (Actuator is activated) | Battery voltage |
| (G) | Ground | rear door UNLOCK | Output | and rear door | Other then UNLOCK (Actuator is not activated) | 0 V |
| 67 (B) | Ground | Ground | Output | Ignition switch Ol | N | 0 V |
| 68 (L) | Ground | P/W power supply (RAP) | Output | Ignition switch ON | | Battery voltage |
| 69 (P) | Ground | P/W power supply (BAT) | Output | Ignition switch O | FF | Battery voltage |
| 70 (Y) | Ground | Battery power sup- ply | Input | Ignition switch O | FF | Battery voltage |

^{*:} Except for Mexico with Intelligent Key









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JCMWM9306GB

| BCN | 1 (BOI | BCM (BODY CONTROL MODULE) | | | | | |
|---------------|----------------|--|-----------------|------------------|--|----------------|-----------------------------|
| Connector No. | tor No. | M27 | 6 | œ | BRAKE SW | Connector No. | M67 |
| Connec | Connector Name | COMBINATION SWITCH | 10 | as as | RR DEF SW | Connector Name | BCM (BODY CONTROL MODULE) |
| Connec | Connector Type | TK16FW | 12 | 3 a | DR SW AS | Connector Type | FEA09FB-FHA6-SA |
| | | | 13 | P | DR SW RR | | |
| F | | | 14 | ŋ | AUTO LIGHT SENS INPUT | 修 | |
| | | | 17 | χ. | SENS POWER SUPPLY | 5 | |
| | _ | 10 1 | 8 6 | > > | KEYLESS TUNER SENS GND KEYLESS TUNER POWER | | 7 58 59 60 61 62 6 |
| | <u></u> 1 | 14 11 1 2 3 4 5 6 | 20 | . GR | KEYLESS TUNER SIGNAL | _ | 65 66 67 68 69 70 1 |
| | J | | 21 | g | IMMOBI ANT (CLOCK) | l | |
| | | | 23 | В | SECURITY IND OUT PUT | | |
| Terminal | | Signal Name [Specification] | 22 | BR | IMMOBI ANT (RX, TX) | lar | Signal Name [Specification] |
| Š. | of Wire | | 27 | > | AIRCON SW | No. of Wire | |
| - | > | INPUT 1 | 28 | <u>5</u> | BLOWER FAN SW | 4 | BATTERY SAVER OUTPUT |
| 2 | œ | INPUT 2 | 59 | > | HAZARD SW | 57 G | BAT FUSE |
| က | _ | INPUT 3 | 90 | g | BACK DOOR OPEN SW | + | D/L UNLOCK DR |
| 4 | 땅 | INPUT 4 | 32 | æ | OUTPUT 5 | 60 BR | FLASHER OUT PUT (LEFT) |
| 2 | BR | INPUT 5 | 33 | В | OUTPUT 4 | Ĭ | FLASHER OUT PUT (RIGHT) |
| 9 | ۵ | OUTPUT 1 | 34 | ٦ | OUTPUT 3 | 63 R | ROOM LAMP OUTPUT |
| 7 | œ | OUTPUT 2 | 35 | В | OUTPUT 2 | V 65 V | D/L LOCK ALL |
| 80 | g | OUTPUT 5 | 36 | > | OUTPUT 1 | 5 99 | D/L UNLOCK OTHER |
| 6 | > | OUTPUT 4 | 37 | 57 | KEY SW | L | GND |
| 9 | × | OUTPUT 3 | 38 | 5 | IGN | 7 89 | POWER WDW OUTPUT (RAP) |
| Ξ | P | WASH FR (-) RR (+) | 39 | _ | CAN-H | 69 | POWER WDW OUTPUT (BAT) |
| 12 | В | GND | 40 | Ь | CAN-L | 70 Y | BAT FL |
| 13 | 0 | WASH FR (+) RR (-) | | | | | |
| 14 | BR | IGN | | | | | |
| | | | Connector No. | П | M66 | | |
| | | | Connector Name | | BCM (BODY CONTROL MODILLE) | | |
| Connector No. | tor No. | M65 | | | | | |
| Connec | Connector Name | BCM (BODY CONTROL MODULE) | Connector Type | П | FEA09FW-FHA6-SA | _ | |
| Connec | Connector Type | TH40EW-NH | 4 | | | | |
| | | | 計 | | | | |
| Œ | | | H.S. | Έ | 41 42 43 44 45 46 47 48 49 | | |
|) T | | | | ŭ | 50 51 50 53 54 55 | | |
| | 1 2 3 | 5 6 7 8 9 10 | | 1 | 1 05 00 04 | | |
| | 21 22 23 | 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 | | | | | |
| | | | Terminal No. | Color of Wire | Signal Name [Specification] | | |
| Terminal | al Color | 3 | 43 | > | BACK DOOR SW | | |
| N | | Signal Name [Specification] | 44 | m | RR WIP AUTO STOP | | |
| - | > | KEY RING OUTPUT | 45 | ۵ | CDLLOCK SW | | |
| 2 | g | INPUT 5 | 46 | æ | CDLUNLOCK SW | | |
| က | > | INPUT 4 | 47 | * | DR SW DR | | |
| 4 | ۸ | INPUT 3 | 48 | GR | DR SW RL | _ | |
| 2 | œ | INPUT 2 | 49 | _ | LUGGAGE LAMP OUTPUT | _ | |
| 9 | ۵ | INPUT 1 | 53 | > | BACK DOOR OPENER OUTPUT | | |
| 7 | _ | KEY CYC UNLOCK | 55 | SB | RR WIP MTR OUT | | |
| 80 | ۳ | KEY CYL LOCK SW | | | | | |

Fail-safe

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 more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

< ECU DIAGNOSIS INFORMATION >

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

DTC Inspection Priority Chart

INFOID:0000000006201805

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

| Priority | DTC |
|----------|---|
| 1 | U1000: CAN COMM CIRCUIT |
| 2 | C1735: IGN CIRCUIT OPEN |
| 3 | C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1711: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RL C1729: VHCL SPEED SIG ERR |

DTC Index

NOTE:

Details of time display

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

| CONSULT display | Tire pressure monitor warning lamp ON | Reference | | |
|----------------------------|---------------------------------------|--------------|--|--|
| U1000: CAN COMM CIRCUIT | _ | BCS-34 | | |
| C1704: LOW PRESSURE FL | × | <u>WT-13</u> | | |
| C1705: LOW PRESSURE FR | × | | | |
| C1706: LOW PRESSURE RR | × | | | |
| C1707: LOW PRESSURE RL | | | | |
| C1708: [NO DATA] FL | × | | | |
| C1709: [NO DATA] FR | × | WT-15 | | |
| C1710: [NO DATA] RR | × | <u>W1-15</u> | | |
| C1711: [NO DATA] RL | | | | |
| C1716: [PRESS DATA ERR] FL | × | | | |
| C1717: [PRESS DATA ERR] FR | × | \\/T 40 | | |
| C1718: [PRESS DATA ERR] RR | × | <u>WT-18</u> | | |
| C1719: [PRESS DATA ERR] RL | | | | |
| C1729: VHCL SPEED SIG ERR | × | <u>WT-20</u> | | |
| C1735: IGN CIRCUIT OPEN | _ | BCS-35 | | |

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000006201807

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision 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:

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

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000006201808

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

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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:

 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

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PRECAUTIONS

< PRECAUTION >

- 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.

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table INFOID:0000000006201809

- 1. Perform "Data Monitor" of CONSULT-III to check for any malfunctioning item.
- 2. Check the malfunction combinations.

| | | | | Malfunction item: × | | |
|-------------------|--------------|--------------|--------------|-------------------------|--------|--|
| Data monitor item | | | | | | |
| <u> </u> | RR WIPER INT | RR WIPER INT | RR WASHER SW | Malfunction combination | D E | |
| | | | | A | F | |
| | | | | В | | |
| | | | × | С | 0 | |
| | × | × | | D | G | |
| | | | | E | | |
| | × | × | | F | Н | |
| | | | × | G | | |
| | | | | Н | | |
| | | | | 1 | ı | |
| | | | | J | | |
| | | | 1 | K | J | |
| | | | | L | | |

Identify the malfunctioning part from the agreed combination and repair or replace the part.

| Malfunction combination | Malfunctioning part | Repair or replace | | | |
|-------------------------|---------------------------------------|--|--|--|--|
| Α | Combination switch "OUTPUT 1" circuit | | | | |
| В | Combination switch "OUTPUT 2" circuit | | | | |
| С | Combination switch "OUTPUT 3" circuit | Inspect the combination switch output circuit applicable to the malfunct ing part. Refer to BCS-37, "Diagnosis Procedure". | | | |
| D | Combination switch "OUTPUT 4" circuit | ing part. Note: to boo or, biogriosis i foccoure. | | | |
| E | Combination switch "OUTPUT 5" circuit | | | | |
| F | Combination switch "INPUT 1" circuit | | | | |
| G | Combination switch "INPUT 2" circuit | | | | |
| Н | Combination switch "INPUT 3" circuit | Inspect the combination switch input circuit applicable to the malfunctioni part. Refer to BCS-39, "Diagnosis Procedure". | | | |
| I | Combination switch "INPUT 4" circuit | | | | |
| J | Combination switch "INPUT 5" circuit | | | | |
| K | Combination switch | Inspect the combination switch. Refer to BCS-41, "Description". | | | |
| L | BCM | Replace BCM. | | | |

BCS-65 Revision: 2010 July 2011 Rogue Α

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< REMOVAL AND INSTALLATION >

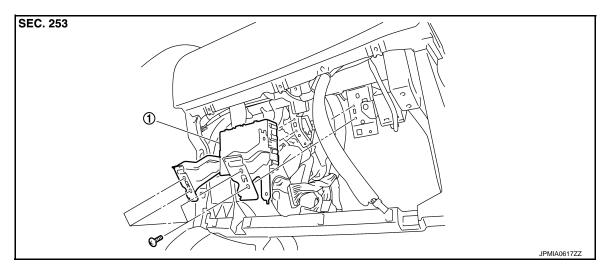
REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Exploded View

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".



1. BCM

Removal and Installation

INFOID:0000000006201811

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description".

REMOVAL

- 1. Remove the glove box assembly. Refer to IP-13, "Exploded View".
- 2. Remove the BCM bracket mounting screws.
- 3. Remove the BCM and disconnect the connector.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Be sure to perform "WRITE CONFIGURATION" when replacing BCM.
- Be sure to perform the system initialization (NATS) when replacing BCM.

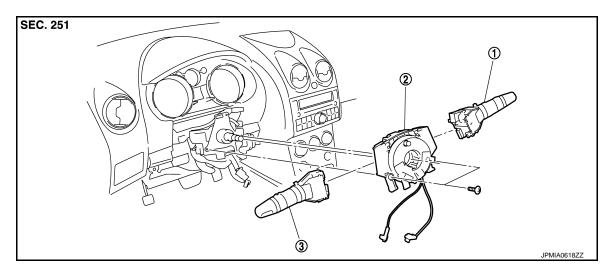
Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

COMBINATION SWITCH

< REMOVAL AND INSTALLATION >

COMBINATION SWITCH

Exploded View



- 1. Wiper & washer switch
- 2. Switch base (Spiral cable)
- 3. Light & turn signal switch

Removal and Installation

Refer to the spiral cable removal and installation SR-14, "Exploded View".

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