

SECTION **INL**

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

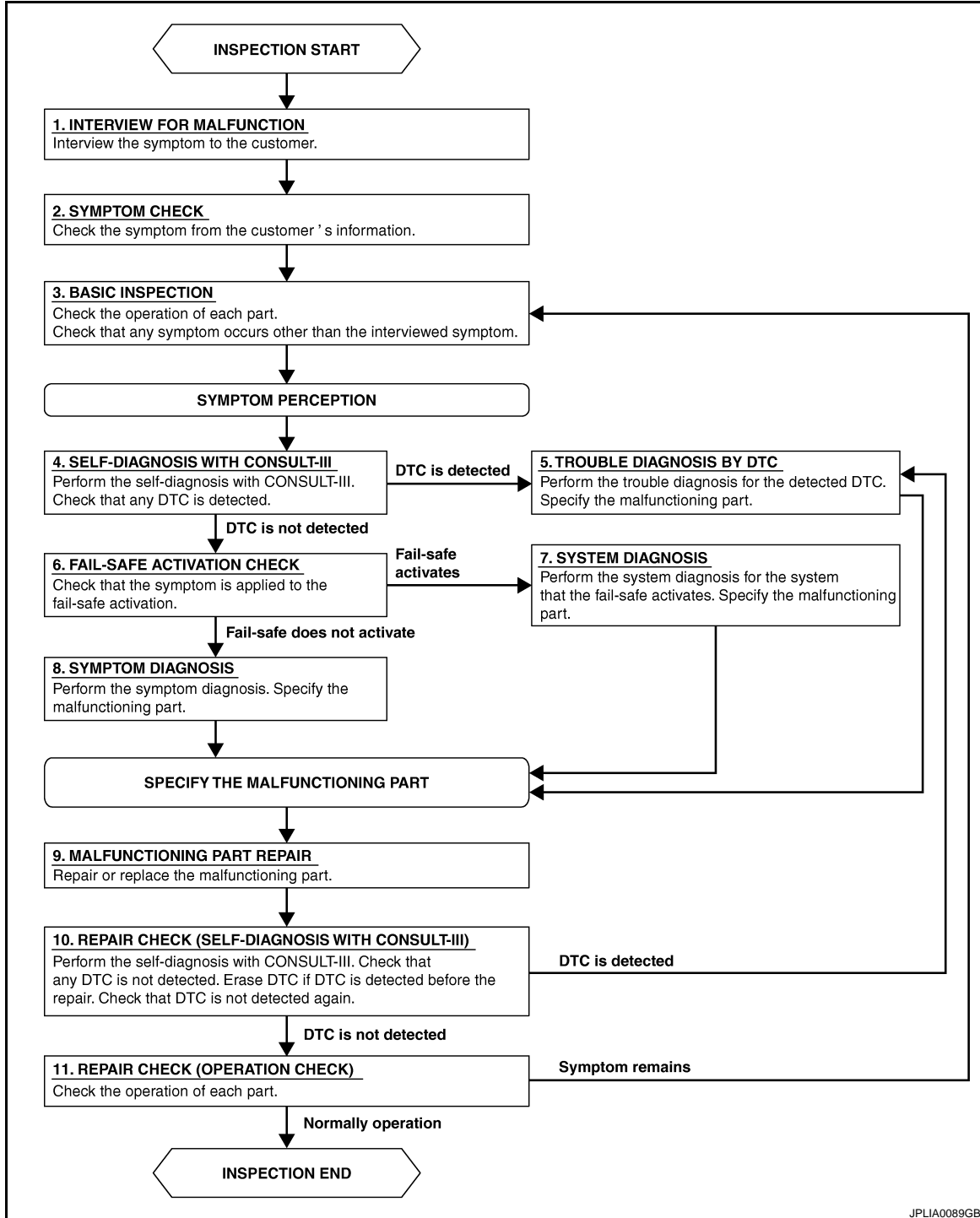
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003071719

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

DETAILED FLOW

1. INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2

2. SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3

3. BASIC INSPECTION

Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview.

>> GO TO 4

4. SELF-DIAGNOSIS WITH CONSULT-III

Perform the self-diagnosis with CONSULT-III. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5

NO >> GO TO 6

5. TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9

6. FAIL-SAFE ACTIVATION CHECK

Determine if the customer's concern is related to fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7

NO >> GO TO 8

7. SYSTEM DIAGNOSIS

Perform the system diagnosis for the system in which the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9

8. SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9

9. MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 11

10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT-III)

Perform the self-diagnosis with CONSULT-III. Verified that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

YES >> GO TO 5

NO >> GO TO 11

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 3

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INTERIOR ROOM LAMP CONTROL SYSTEM

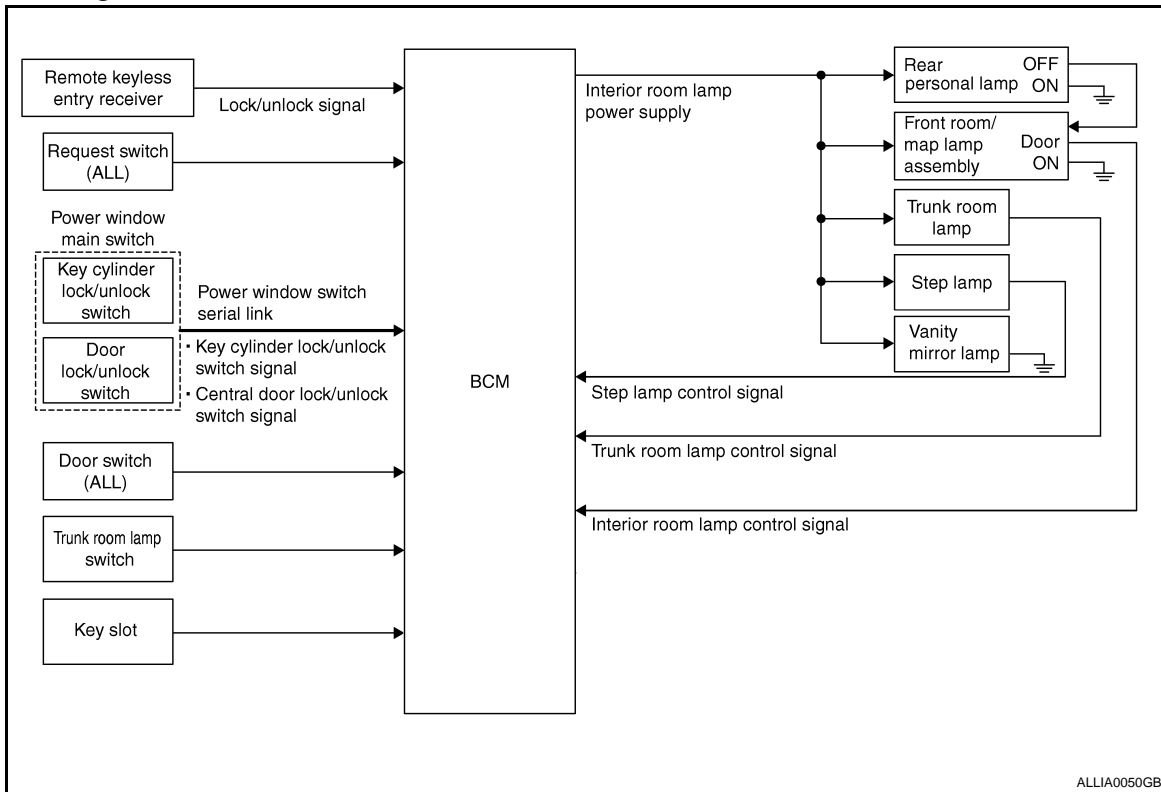
< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

INFOID:000000003071720



System Description

INFOID:000000003071721

OUTLINE

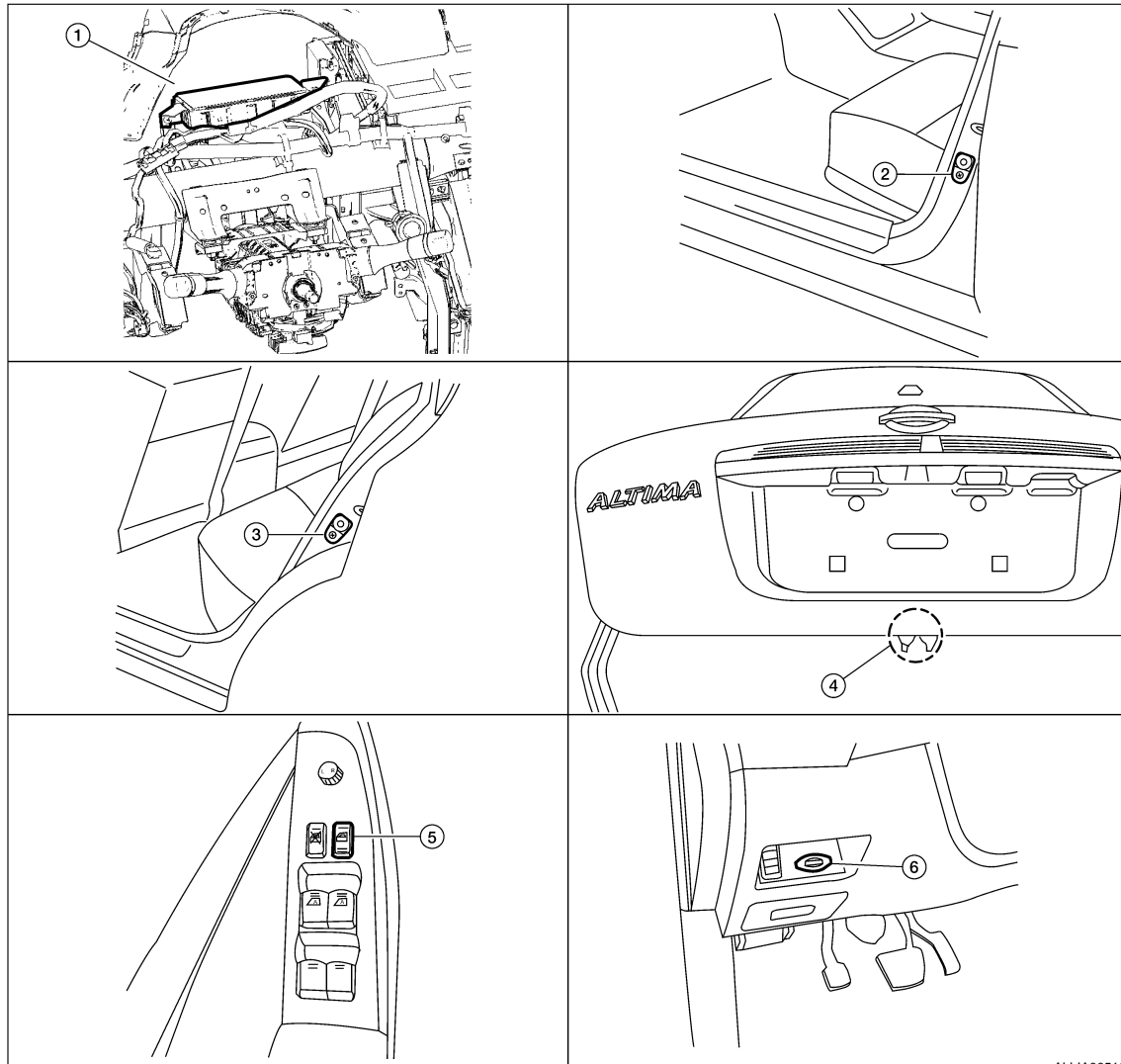
- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
*:Front room/map lamps and personal lamps (when lamp switch is in DOOR position).
- Trunk room lamp is controlled by trunk room lamp control function of BCM.
- Step lamps are controlled by step lamp control function of BCM.

INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003071722



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|---|--|---|
| 1. BCM M17, M18, M19, M20, M21 (view with instrument panel removed) | 2. Front door switch LH, B8 and RH, B18 | 3. Rear door switch LH, B108 and RH, B116 |
| 4. Trunk lamp switch and trunk release solenoid B28 | 5. Main power window and door lock/unlock switch D7 and D8 | 6. Key slot M40 |

Component Description

INFOID:000000003071723

SWITCH OPERATION

When a door is opened, the door switch closes to send a ground signal to the BCM. When the trunk is opened, the trunk lamp switch and trunk release solenoid closes sending a ground signal to the BCM.

ROOM LAMP TIMER OPERATION

When the interior room lamp switch is in DOOR position and when all conditions below are met, BCM begins timer control (maximum 30 seconds) for interior room lamp ON/OFF.

- When the front door LH is unlocked [with Intelligent Key, main power window and door lock/unlock switch, or front door lock assembly (key cylinder switch)].
- When a door opens → closes and the Intelligent Key is not inserted in the key slot.

Timer control is canceled under the following conditions.

- When the front door LH is locked [with Intelligent Key, main power window and door lock/unlock switch, or front door lock assembly (key cylinder switch)].

INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

- A door is opened (door switch turns ON).
- Intelligent Key is inserted into the key slot.

Interior lamp operational settings can be changed with the function setting of CONSULT-III.

INTERIOR LAMP BATTERY SAVER CONTROL

If an interior lamp is left ON and does not turn OFF even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery 30 minutes after the ignition switch is turned OFF.

The BCM controls the interior lamps listed below

- Step lamp LH and RH
- Front room/map lamp LH and RH
- Personal lamp rear LH and RH
- Vanity mirror lamp LH and RH
- Trunk room lamp

After the battery saver system turns the lamps OFF, the lamps will illuminate again when

- a signal is received from an Intelligent Key or main power window and door lock/unlock switch, or when the front door LH lock assembly (key cylinder switch) is locked or unlocked
- a door is opened or closed
- the Intelligent Key is removed from or inserted into the key slot.

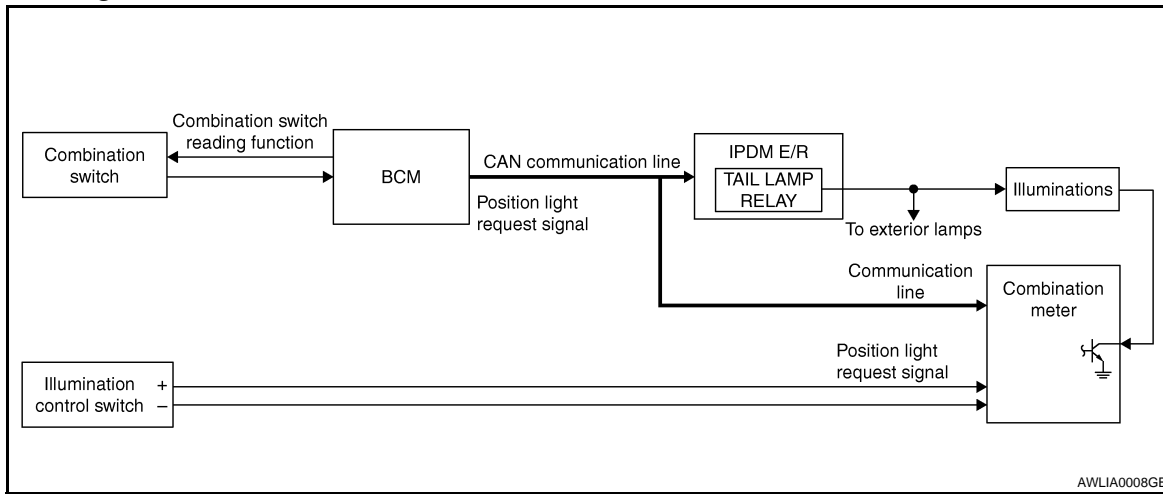
The Interior lamp battery saver control time period can be changed with the function setting of CONSULT-III.

ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

ILLUMINATION CONTROL SYSTEM

System Diagram



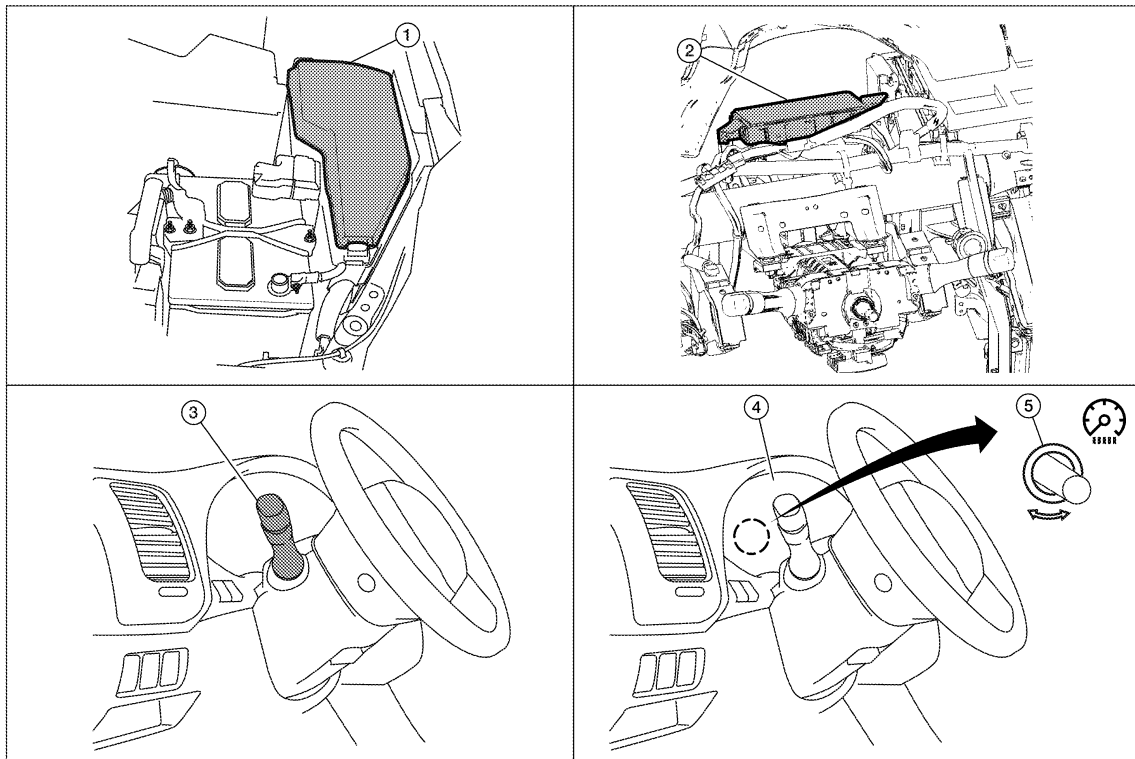
System Description

INFOID:000000003071725

The illumination lamps operation is dependent upon the position of the lighting switch (combination switch). When the lighting switch is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives input requesting the illumination lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) across the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the tail lamp relay coil. When energized, this relay directs power to the illumination lamps, which then illuminate.

Component Parts Location

INFOID:000000003303278



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ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

1. IPDM E/R E17, E18
2. BCM M16, M17, M18, M19 (view with instrument panel removed)
3. Combination switch M28
4. Combination meter M24
5. Illumination control switch (built into combination meter)

Component Description

INFOID:000000003071727

ILLUMINATION OPERATION BY LIGHTING SWITCH

With the lighting switch in the 1ST or 2ND position (or if the auto light system is activated), the BCM receives input requesting the illumination lamps to illuminate. This input is communicated to the IPDM E/R across the CAN communication lines. The CPU of the IPDM E/R controls the tail lamp relay coil which, when energized, directs power

BATTERY SAVER CONTROL

When the lighting switch (combination switch) is in the 1ST or 2ND position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 30 minutes unless the lighting switch position is changed. If the lighting switch position is changed, then the illumination lamps are turned off after a 30 second delay. When the lighting switch is turned from OFF to 1ST or 2ND position (or if auto light system is activated) after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

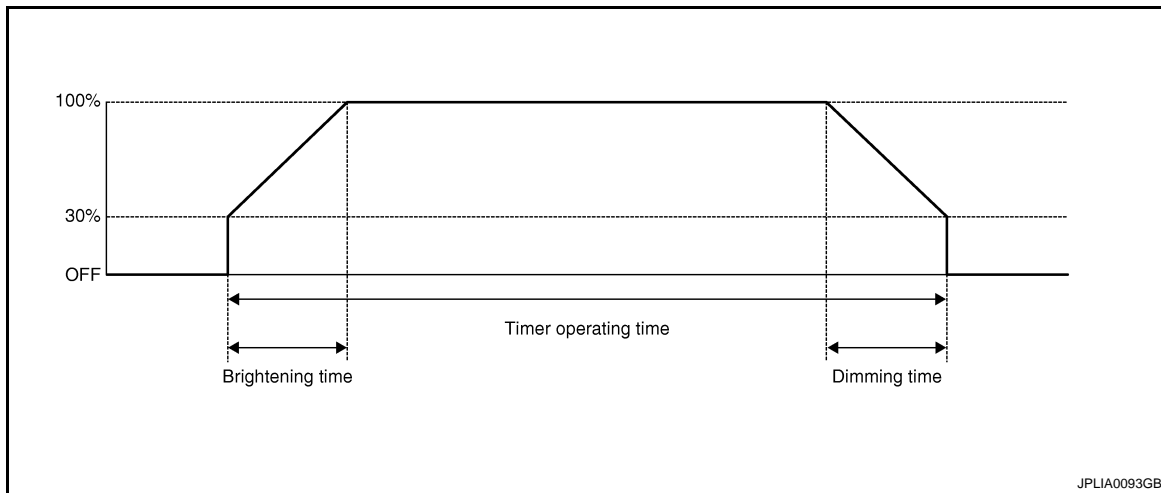
CONSULT-III Function

INFOID:000000003303279

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

| Diagnostic mode | Description |
|-----------------------|--|
| WORK SUPPORT | Supports inspections and adjustments. Commands are transmitted to the BCM for setting the status suitable for required operation, input/output signals are received from the BCM and received data is displayed. |
| DATA MONITOR | Displays BCM input/output data in real time. |
| ACTIVE TEST | Operation of electrical loads can be checked by sending drive signal to them. |
| SELF-DIAG RESULTS | Displays BCM self-diagnosis results. |
| CAN DIAG SUPPORT MNTR | The result of transmit/receive diagnosis of CAN communication can be read. |
| ECU PART NUMBER | BCM part number can be read. |
| CONFIGURATION | Performs BCM configuration read/write functions. |

WORK SUPPORT



| Service item | Setting item | Setting |
|------------------------|--------------|---|
| SET I/L D-UNLCK INTCON | ON* | With the interior room lamp timer function |
| | OFF | Without the interior room lamp timer function |
| ROOM LAMP TIMER SET | MODE 2 | 7.5 sec. |
| | MODE 3* | 15 sec. |
| | MODE 4 | 30 sec. |
| ROOM LAMP ON TIME SET | MODE 1 | 0.5 sec. |
| | MODE 2* | 1 sec. |
| | MODE 3 | 2 sec. |
| | MODE 4 | 3 sec. |
| | MODE 5 | 0 sec. |
| ROOM LAMP OFF TIME SET | MODE 1 | 0.5 sec. |
| | MODE 2 | 1 sec. |
| | MODE 3 | 2 sec. |
| | MODE 4* | 3 sec. |

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

| Service item | Setting item | Setting |
|------------------------|-----------------|---|
| R LAMP TIMER LOGIC SET | MODE 1* (ON) | Interior room lamp timer activates with synchronizing all doors. |
| | MODE 2 (OFF) | Interior room lamp timer activates with synchronizing the front door LH only. |

* : Initial setting

DATA MONITOR

| Monitor item [Unit] | Description |
|---------------------------|--|
| REQ SW-DR [ON/OFF] | The switch status input from request switch (driver side) |
| REQ SW-AS [ON/OFF] | The switch status input from front request switch (passenger side) |
| REQ SW-RR [ON/OFF] | NOTE: The item is indicated, not monitored. |
| REQ SW-RL [ON/OFF] | NOTE: The item is indicated, not monitored. |
| PUSH SW [ON/OFF] | The switch status input from push-button ignition switch |
| ACC RLY-F/B [ON/OFF] | ACC relay feedback signal status input from ACC relay |
| UNLK SEN-DR [ON/OFF] | Door lock status input from front door LH |
| KEY SW-SLOT [ON/OFF] | Key switch status input from key slot |
| DOOR SW-DR [ON/OFF] | The switch status input from front door switch LH |
| DOOR SW-AS [ON/OFF] | The switch status input from front door switch RH |
| DOOR SW-RR [ON/OFF] | The switch status input from rear door switch RH |
| DOOR SW- RL [ON/OFF] | The switch status input from rear door switch LH |
| DOOR SW-BK [ON/OFF] | NOTE: The item is indicated, not monitored. |
| CDL LOCK SW [ON/OFF] | Lock switch status received from central door lock switch by power window switch serial link |
| CDL UNLOCK SW [ON/OFF] | Unlock switch status received from central door lock switch by power window switch serial link |
| KEY CYL LK-SW [ON/OFF] | Lock switch status received from key cylinder switch by power window switch serial link |
| KEY CYL UN-SW [ON/OFF] | Unlock switch status received from key cylinder switch by power window switch serial link |
| TRNK/HAT MNTR [ON/OFF] | The switch status input from trunk room lamp switch |
| RKE-LOCK [ON/OFF] | Lock signal status received from remote keyless entry receiver |
| RKE-UNLOCK [ON/OFF] | Unlock signal status received from remote keyless entry receiver |

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

| Test item | Operation | Description |
|-------------------|-----------|--|
| INT LAMP | ON | Outputs the interior room lamp control signal to turn map lamp and personal lamp ON (Map lamp switch is in DOOR position). |
| | OFF | Stops the interior room lamp control signal to turn map lamp and personal lamp OFF. |
| STEP LAMP TEST | ON | Outputs the step lamp control signal to turn step lamp ON. |
| | OFF | Stops the step lamp control signal to turn step lamp OFF. |
| LUGGAGE LAMP TEST | ON | Outputs the luggage room lamp control signal to turn step lamp ON. |
| | OFF | Stops the luggage room lamp control signal to turn step lamp ON. |

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000003303313

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

| Terminal No. | Signal name | Fuse and fusible link No. |
|--------------|----------------------|---------------------------|
| 1 | Battery power supply | J |
| 11 | | 10 |

Is the fuse or fusible link blown?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

| Terminals | | Voltage (Approx.) |
|-----------|----------|-------------------|
| (+) | (-) | |
| BCM | | Ground |
| Connector | Terminal | |
| M16 | 1 | |
| M17 | 11 | |
| | | Battery voltage |

Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

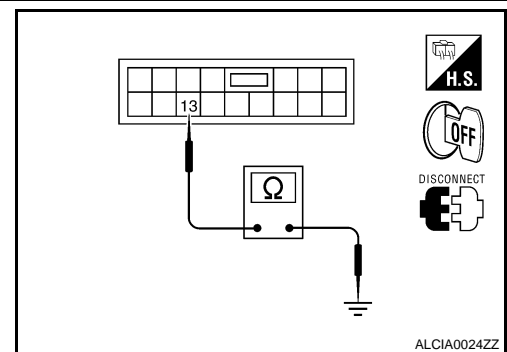
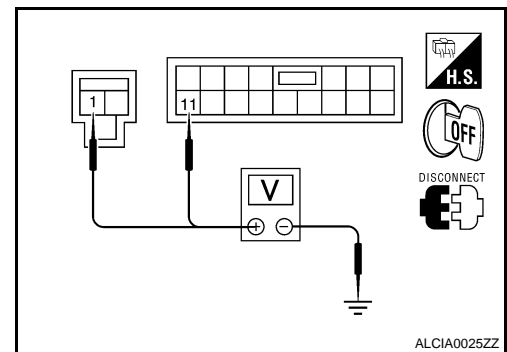
Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M17 | 13 | | Yes |

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



Special Repair Requirement

INFOID:000000003303314

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to CONSULT-III operation manual.

>> Work end.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:000000003071730

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

Component Function Check

INFOID:000000003071731

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT-III

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

OFF : Interior room lamp OFF

ON : Interior room lamp ON

Is the inspection result normal?

- YES >> Interior room lamp power supply circuit is normal.
 NO >> Refer to [INL-15, "Diagnosis Procedure"](#).

Diagnosis Procedure

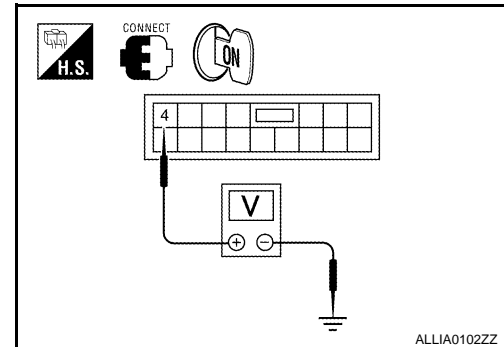
INFOID:000000003071732

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT-III

1. Turn ignition switch ON.
2. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
3. While operating the test item, check voltage between BCM harness connector M17 terminal 4 and ground.

| Terminals | | Test item | Voltage |
|-----------|----------|---------------|-----------------|
| (+) | (-) | | |
| BCM | | BATTERY SAVER | 0 V |
| Connector | Terminal | | |
| M17 | 4 | OFF | Battery voltage |
| | | ON | |



Is the inspection result normal?

- YES >> GO TO 2
 NO >> Replace BCM. Refer to [BCS-85, "Removal and Installation"](#).

2. CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - BCM M17
 - Front room/map lamp assembly
 - Vanity mirror lamp LH
 - Vanity mirror lamp RH
 - Trunk room lamp
 - Step lamp LH
 - Step lamp RH

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

3. Check continuity between BCM harness connector M17 terminal 4 and each interior room lamp harness connector.

| BCM | | Each interior room lamp | | | Continuity |
|-----------|----------|------------------------------|------|----------|------------|
| Connector | Terminal | Connector | | Terminal | |
| M17 | 4 | Front room/map lamp assembly | R50 | 1 | Yes |
| | | Vanity mirror lamp LH | R3 | 2 | |
| | | Vanity mirror lamp RH | R9 | 2 | |
| | | Trunk room lamp | B36 | 1 | |
| | | Step lamp LH | D11 | 1 | |
| | | Step lamp RH | D109 | 1 | |

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harnesses or connectors.

3.CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

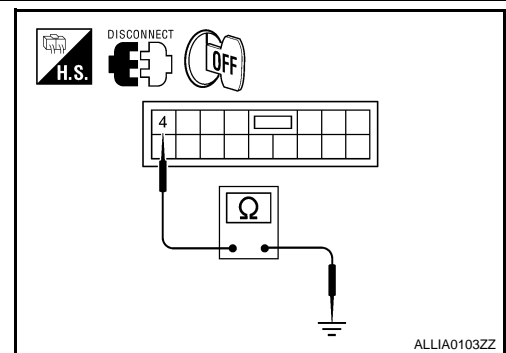
Check continuity between BCM harness connector M17 terminal 4 and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M17 | 4 | | No |

Is the inspection result normal?

YES >> Replace the interior room lamp. Refer to [INL-87](#), "[Removal and Installation](#)".

NO >> Repair the harnesses or connectors.



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INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000003071733

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

NOTE:

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

Component Function Check

INFOID:000000003071734

CAUTION:

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

- Interior room lamp power supply
- Front room/map lamp bulbs
- Personal lamp bulbs

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT-III

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

ON : Interior room lamp gradual brightening

OFF : Interior room lamp gradual dimming

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-17. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003071735

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT-III

1. Turn ignition switch OFF.
2. Select "INT LAMP" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM harness connector M17 terminal 19 and ground.

| BCM | | Ground | Test item | Voltage |
|-----------|----------|--------|-----------|-----------------|
| Connector | Terminal | | INT LAMP | |
| M17 | 19 | | ON | 0V |
| | | | OFF | Battery voltage |

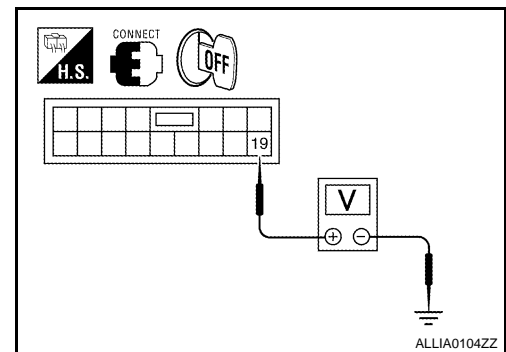
Is the inspection result normal?

YES >> GO TO 2

Fixed ON >> GO TO 3

Fixed OFF >> Replace BCM. Refer to [BCS-85. "Removal and Installation"](#).

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT



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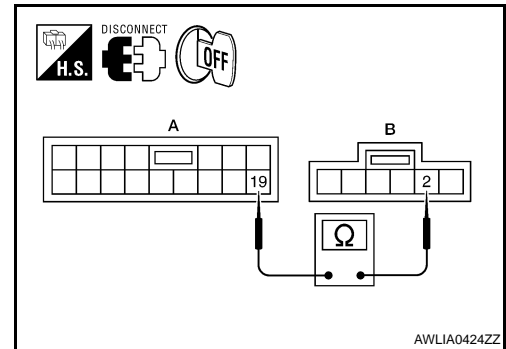
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INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM connector M17 and front room/map lamp assembly connector.
3. Check continuity between BCM harness connector M17 (A) terminal 19 and front room/map lamp assembly harness connector R50 (B) terminal 2.

| BCM | | Front room/map lamp assembly | | Continuity |
|-----------|----------|------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M17 (A) | 19 | R50 (B) | 2 | Yes |



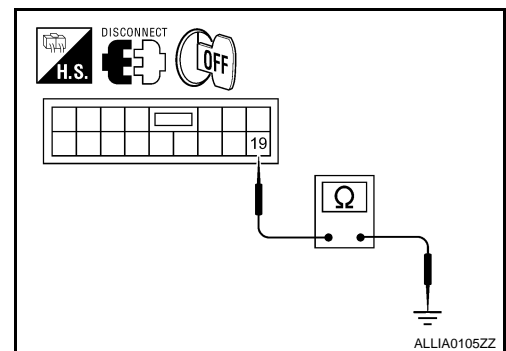
Is the inspection result normal?

- YES >> Replace the front room/map lamp assembly. Refer to [INL-87, "Removal and Installation"](#).
 NO >> Repair the harnesses or connectors.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M17 and front room/map lamp assembly connector.
3. Check continuity between BCM harness connector M17 terminal 19 and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M17 | 19 | | No |



Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-85, "Removal and Installation"](#).
 NO >> Repair the harnesses or connectors.

STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

STEP LAMP CIRCUIT

Description

INFOID:000000003071736

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

Component Function Check

INFOID:000000003071737

CAUTION:

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

- Interior room lamp power supply
- Step lamp bulb

1.CHECK STEP LAMP OPERATION

CONSULT-III

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

ON : Step lamp ON

OFF : Step lamp OFF

Is the inspection result normal?

YES >> Step lamp circuit is operating.

NO >> Refer to [INL-19, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003071738

1.CHECK STEP LAMP OUTPUT

CONSULT-III

1. Turn ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM harness connector M17 terminal 7 and ground.

| BCM | | Ground | Test item | Voltage |
|-----------|----------|--------|----------------|-----------------|
| Connector | Terminal | | STEP LAMP TEST | |
| M17 | 7 | | ON | 0V |
| | | | OFF | Battery voltage |

Is the inspection result normal?

YES >> GO TO 2

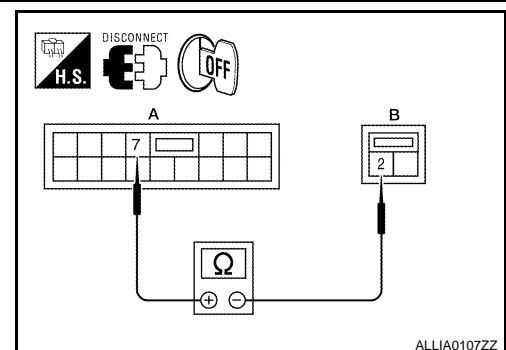
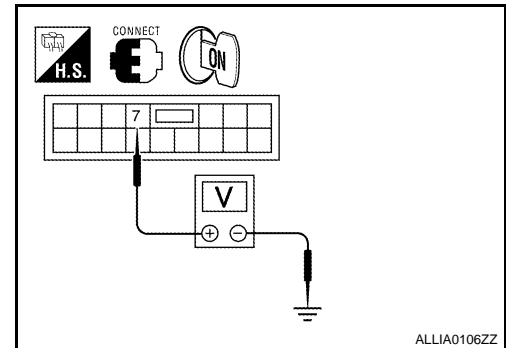
Fixed ON>>GO TO 3

Fixed OFF>> Replace BCM. Refer to [BCS-85, "Removal and Installation"](#).

2.CHECK STEP LAMP OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M17 and step lamp LH and RH connectors.
3. Check continuity between BCM harness connector M17 (A) terminal 7 and step lamp harness connector (B) terminal 2.

| BCM | | Step lamp | | | Continuity |
|-----------|----------|-----------|----------|----------|------------|
| Connector | Terminal | Connector | Terminal | Terminal | |
| M17 (A) | 7 | LH | D11 (B) | 2 | Yes |
| | | RH | D109 (B) | 2 | |



STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace step lamp. Refer to [INL-87, "Removal and Installation"](#).

NO >> Repair harnesses or connectors.

3. CHECK STEP LAMP SHORT CIRCUIT

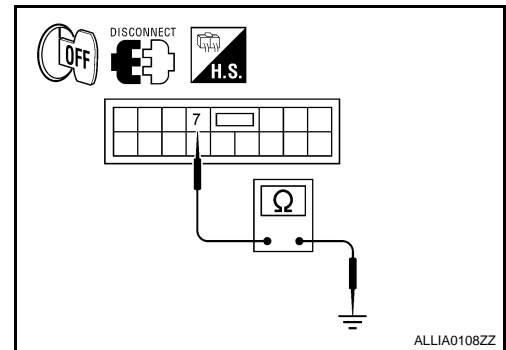
1. Turn ignition switch OFF.
2. Disconnect BCM connector and step lamp LH and RH connectors.
3. Check continuity between BCM harness connector M17 terminal 7 and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M17 | 7 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-85, "Removal and Installation"](#).

NO >> Repair the harnesses or connectors.



TRUNK ROOM LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

TRUNK ROOM LAMP CIRCUIT

Description

INFOID:000000003071739

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

Component Function Check

INFOID:000000003071740

CAUTION:

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

- Interior room lamp power supply
- Trunk room lamp bulb

1.CHECK TRUNK ROOM LAMP OPERATION

CONSULT-III

1. Turn ignition switch ON.
2. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test items, check that trunk room lamp turns ON/OFF.

- ON** : Trunk room lamp ON
OFF : Trunk room lamp OFF

Is the inspection result normal?

- YES >> Trunk room lamp circuit is normal.
 NO >> Refer to [INL-21, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003071741

1.CHECK TRUNK ROOM LAMP OUTPUT

CONSULT-III

1. Turn ignition switch ON.
2. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM harness connector and ground.

| BCM | | Ground | Test item | Voltage |
|-----------|----------|--------|-------------------|-----------------|
| Connector | Terminal | | LUGGAGE LAMP TEST | |
| M20 | 110 | | ON | 0V |
| | | | OFF | Battery voltage |

Is the inspection result normal?

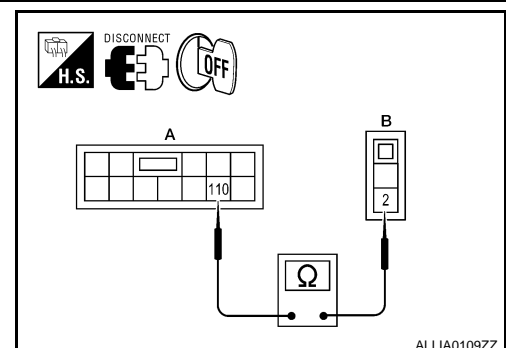
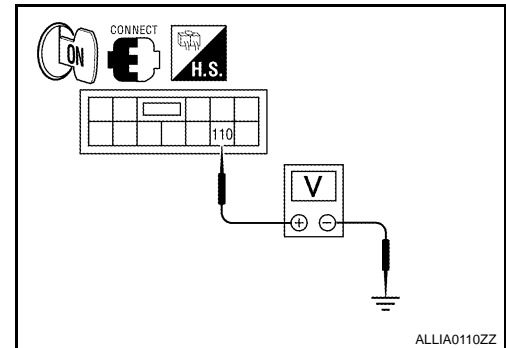
- YES >> GO TO 2
 Fixed ON>>GO TO 3
 Fixed OFF>> Replace BCM. Refer to [BCS-85, "Removal and Installation"](#).

2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and trunk room lamp connector.
3. Check continuity between BCM harness connector M20 (A) terminal 110 and trunk room lamp harness connector B36 (B) terminal 2.

| BCM | | Trunk room lamp | | Continuity |
|-----------|----------|-----------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M20 (A) | 110 | B36 (B) | 2 | Yes |

Is the inspection result normal?



TRUNK ROOM LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

YES >> Replace trunk room lamp. Refer to [INL-87. "Removal and Installation"](#).

NO >> Repair harnesses or connectors.

3. CHECK TRUNK ROOM LAMP SHORT CIRCUIT

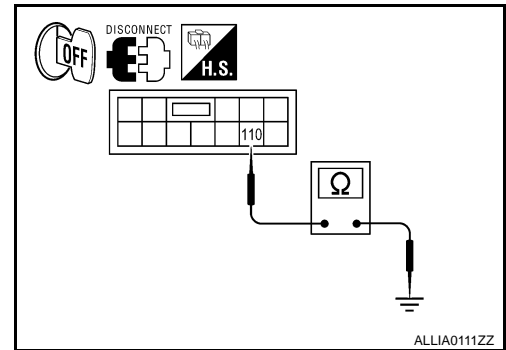
1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and trunk room lamp connector.
3. Check continuity between BCM harness connector M20 terminal 110 and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M20 | 110 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-85. "Removal and Installation"](#).

NO >> Repair harnesses or connectors.



PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< COMPONENT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:000000003071742

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

Component Function Check

INFOID:000000003071743

1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT-III

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

ON : Push-button ignition switch illumination ON

OFF : Push-button ignition switch illumination OFF

Is the inspection result normal?

- YES >> Push-button ignition switch illumination circuit is normal.
 NO >> Refer to [INL-23, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003071744

1. CHECK ILLUMINATION CONTROL SWITCHING OPERATION

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

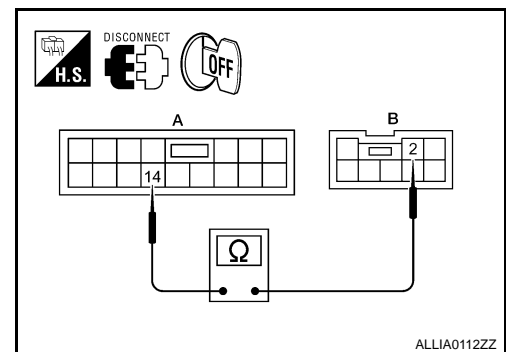
| Condition | Push-button ignition switch illumination |
|--|--|
| <ul style="list-style-type: none"> • Ignition switch ON • Lighting switch 1ST | ON |
| <ul style="list-style-type: none"> • Ignition switch OFF • Lighting switch OFF • Driver door LOCK | OFF |

Is the inspection result normal?

- YES >> GO TO 2
 NO >> GO TO 3

2. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect BCM connector M17 and the push-button ignition switch connector.
3. Check continuity between BCM harness connector M17 (A) terminal 14 and the push-button ignition switch harness connector M38 (B) terminal 2.



| BCM | | Push-button ignition switch | | Continuity |
|-----------|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M17 (A) | 14 | M38 (B) | 2 | Yes |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-85, "Removal and Installation"](#).
 NO >> Repair the harness or the connector.

3. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

CONSULT-III

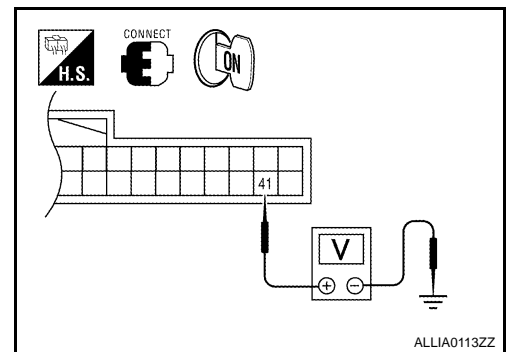
1. Turn the ignition switch ON.
2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< COMPONENT DIAGNOSIS >

- While operating the test item, check voltage between BCM harness connector M18 terminal 41 and ground.

| Terminals | | Test item | Voltage |
|-----------|----------|------------------|---------|
| (+) | (-) | | |
| BCM | | ENGINE SW ILLUMI | |
| Connector | Terminal | | |
| M18 | 41 | ON | 5 V |
| | | OFF | 0 V |



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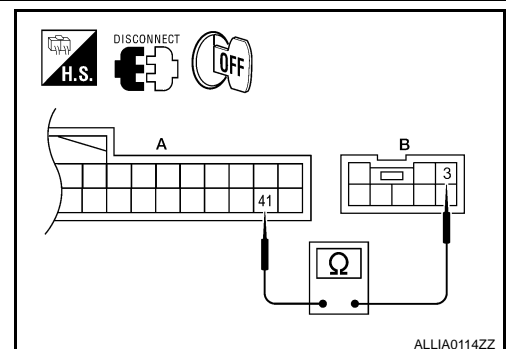
Is the inspection result normal?

- YES >> GO TO 4
NO >> GO TO 5

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

- Turn the ignition switch OFF.
- Disconnect BCM connector M18 and the push-button ignition switch connector.
- Check continuity between BCM harness connector M18 (A) terminal 41 and the push-button ignition switch harness connector M38 (B) terminal 3.

| BCM | | Push-button ignition switch | | Continuity |
|-----------|----------|-----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M18 | 41 | M38 | 3 | Yes |



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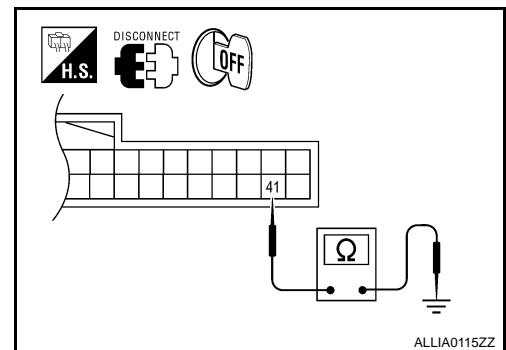
Is the inspection result normal?

- YES >> Replace push-button ignition switch.
NO >> Repair the harness or the connector.

5. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

- Turn the ignition switch OFF.
- Disconnect BCM connector M18 and the push-button ignition switch connector.
- Check continuity between BCM harness connector M18 terminal 41 and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M18 | 41 | | No |



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Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-85. "Removal and Installation"](#).
NO >> Repair the harness or the connector.

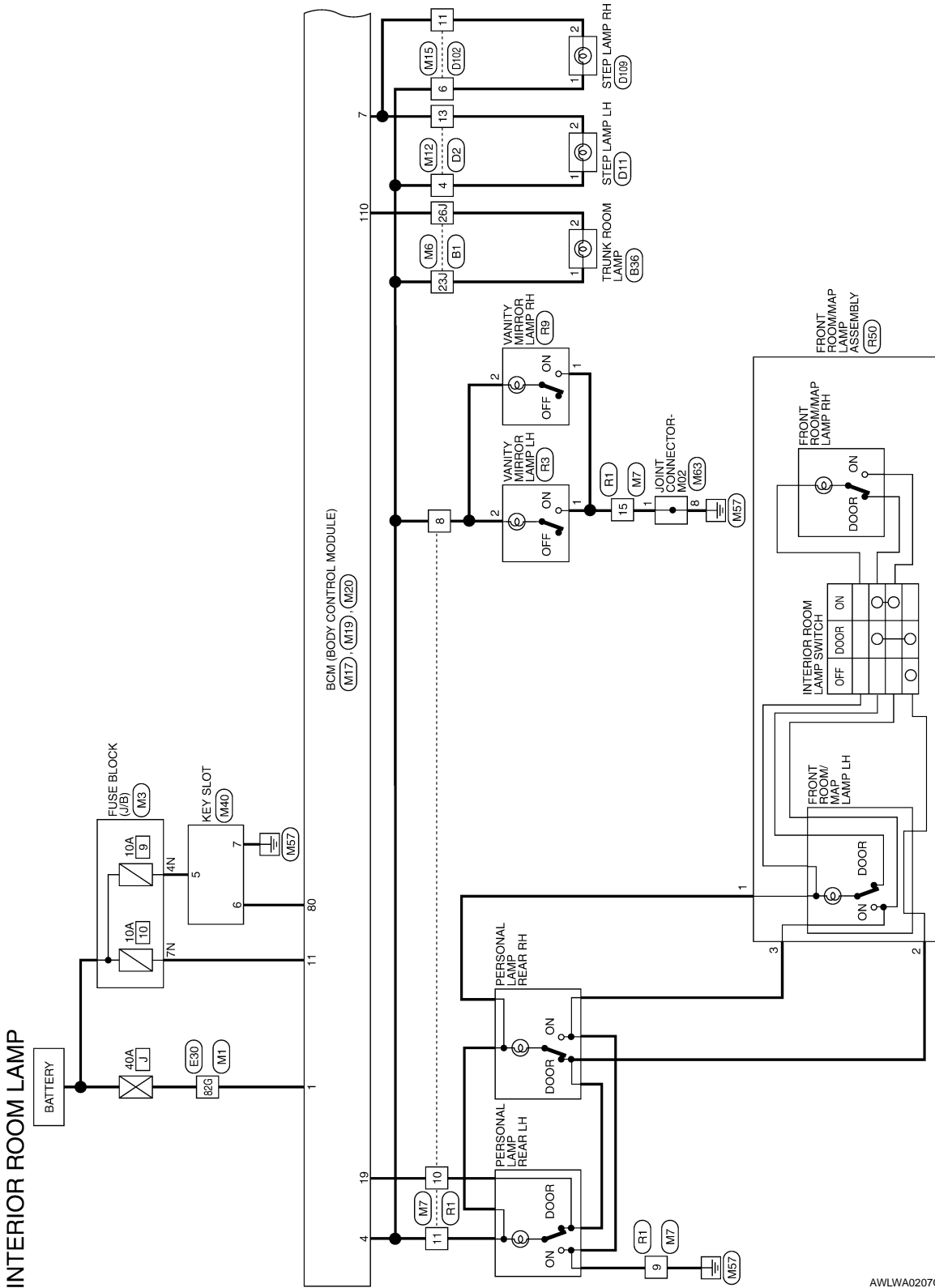
INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

INFOID:000000003071745



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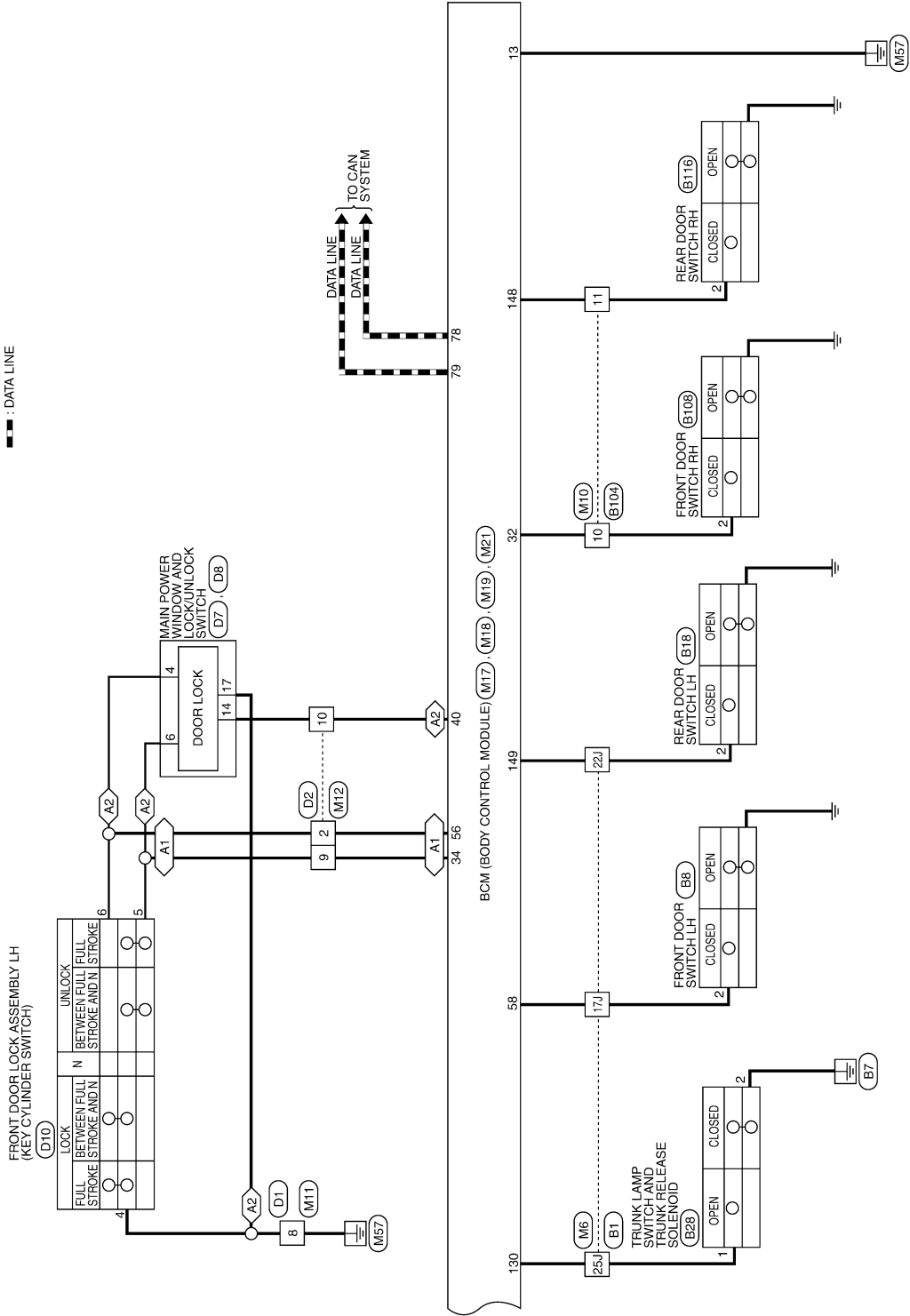
A
B
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E
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H
I
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K
L
M
N
O
P

INL

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

-  : WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM
-  : WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM
-  : DATA LINE

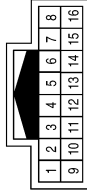


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INTERIOR ROOM LAMP CONTROL SYSTEM

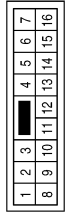
< COMPONENT DIAGNOSIS >

| | |
|-----------------|--------------|
| Connector No. | M12 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



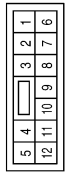
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | L/B | — |
| 4 | P/W | — |
| 9 | L/R | — |
| 10 | Y/G | — |
| 13 | R/W | — |

| | |
|-----------------|--------------|
| Connector No. | M11 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



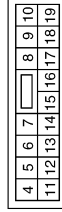
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | B | — |

| | |
|-----------------|--------------|
| Connector No. | M10 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | R/B | — |
| 11 | R/W | — |

| | |
|-----------------|---------------------------|
| Connector No. | M17 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------|
| 4 | P/W | ROOM_LAMP_BAT_SAVER |
| 7 | R/W | STEP_LAMP_OUTPUT |
| 11 | Y/R | BAT_BCM_FUSE |
| 13 | B | GND1 |
| 19 | Y | ROOM_LAMP_OUTPUT |

| | |
|-----------------|---------------------------|
| Connector No. | M16 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------|
| 1 | W/B | BAT_POWER_F/L |

| | |
|-----------------|--------------|
| Connector No. | M15 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | P/W | — |
| 11 | R/W | — |

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

| | |
|-----------------|---------------------------|
| Connector No. | M20 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |

| | | | | |
|-----|-----|-----|-----|-----|
| 100 | 101 | 102 | 103 | 104 |
| 105 | 106 | 107 | 108 | 109 |
| 110 | 111 | | | |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 110 | V/W | TRUNK_LAMP_OUTPUT |

| | |
|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 | 60 |
| 99 | 98 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 | 80 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------|
| 78 | P | CAN-L |
| 79 | L | CAN-H |
| 80 | R/L | FOB_SLOT_ILLUMINATION |

| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GREEN |

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 |
| 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 32 | R/B | AS_DOOR_SW |
| 34 | L/R | DOOR_KEY/C_UNLOCK_SW |
| 40 | Y/G | PW_K-LINE |
| 56 | L/B | DOOR_KEY/C_LOCK_SW |
| 58 | SB | DR_DOOR_SW |

| | |
|-----------------|---------------------|
| Connector No. | M63 |
| Connector Name | JOINT CONNECTOR-M02 |
| Connector Color | BLUE |

| | | | | | | | | | | | |
|----|----|----|---|---|---|---|---|---|---|---|---|
| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----|----|----|---|---|---|---|---|---|---|---|---|



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | — |
| 8 | B | — |

| | |
|-----------------|----------|
| Connector No. | M40 |
| Connector Name | KEY SLOT |
| Connector Color | WHITE |

| | | | | | |
|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | GY | LIGHT_BAT+ |
| 6 | R/L | LIGHT_A |
| 7 | B | GND |

| | |
|-----------------|---------------------------|
| Connector No. | M21 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GRAY |

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 131 | 130 | 129 | 128 | 127 | 126 | 125 | 124 | 123 | 122 | 121 | 120 | 119 | 118 | 117 | 116 | 115 | 114 | 113 | 112 |
| 151 | 150 | 149 | 148 | 147 | 146 | 145 | 144 | 143 | 142 | 141 | 140 | 139 | 138 | 137 | 136 | 135 | 134 | 133 | 132 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 130 | Y/G | TRUNK_SW |
| 148 | R/W | RR_DOOR_SW |
| 149 | R/B | RL_DOOR_SW |

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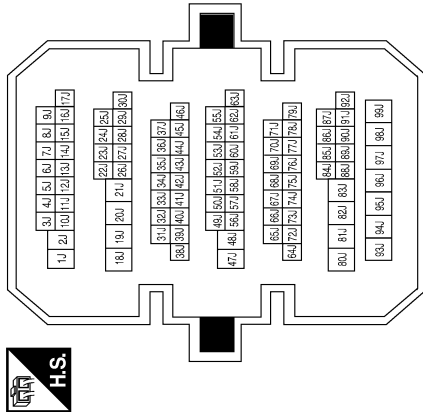


INTERIOR ROOM LAMP CONTROL SYSTEM

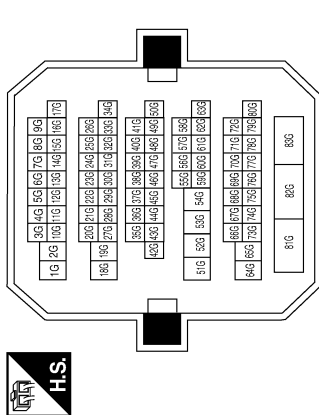
< COMPONENT DIAGNOSIS >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 17J | SB | — |
| 22J | R/B | — |
| 23J | P | — |
| 25J | Y/G | — |
| 26J | V/W | — |

| Connector No. | B1 |
|-----------------|--------------|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Connector No. | E30 |
|-----------------|--------------|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 82G | W/B | — |

| Connector No. | B28 |
|-----------------|--|
| Connector Name | TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID |
| Connector Color | WHITE |



| Connector No. | B18 |
|-----------------|---------------------|
| Connector Name | REAR DOOR SWITCH LH |
| Connector Color | WHITE |



| Connector No. | B8 |
|-----------------|----------------------|
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y/G | — |
| 2 | B | — |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | R/B | DOOR SW(RL) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | SB | DOOR SW(DR) |

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

| | |
|-----------------|----------------------|
| Connector No. | B108 |
| Connector Name | FRONT DOOR SWITCH RH |
| Connector Color | WHITE |



| | | |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|

| | |
|-----------------|--------------|
| Connector No. | B104 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| | | | | |
|----|----|---|---|----|
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | | | |

| | |
|-----------------|-----------------|
| Connector No. | B36 |
| Connector Name | TRUNK ROOM LAMP |
| Connector Color | WHITE |



| | |
|---|---|
| 1 | 2 |
|---|---|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 2 | R/B | DOOR SW (AS) |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | R/B | — |
| 11 | R/W | — |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | — |
| 2 | V/W | — |

| | |
|-----------------|-----------------------|
| Connector No. | R3 |
| Connector Name | VANITY MIRROR LAMP LH |
| Connector Color | WHITE |



| | |
|---|---|
| 1 | 2 |
|---|---|

| | |
|-----------------|--------------|
| Connector No. | R1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | | | | | | | |
|----|----|----|----|----|----|----|---|
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |

| | |
|-----------------|---------------------|
| Connector No. | B116 |
| Connector Name | REAR DOOR SWITCH RH |
| Connector Color | WHITE |



| | | |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------|
| 1 | B | GND |
| 2 | P | ROOM_LAMP_BAT_SAVER |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | P | — |
| 9 | W | — |
| 10 | W | — |
| 11 | W | — |
| 15 | B | — |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 2 | R/W | DOOR SW (RH) |

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

| | |
|-----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | | | | | | |
|----|----|----|----|----|----|----|
| 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 16 | 15 | 14 | 13 | 12 | 11 | 10 |
| | | | | | | 9 |
| | | | | | | 8 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | B | — |

| | |
|-----------------|------------------------------|
| Connector No. | R50 |
| Connector Name | FRONT ROOM/MAP LAMP ASSEMBLY |
| Connector Color | GRAY |



| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | W | — |
| 2 | W | — |
| 3 | W | — |

| | |
|-----------------|-----------------------|
| Connector No. | R9 |
| Connector Name | VANITY MIRROR LAMP RH |
| Connector Color | WHITE |



| | |
|---|---|
| 1 | 2 |
|---|---|

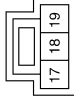
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------|
| 1 | B | GND |
| 2 | P | ROOM_LAMP_BAT_SAVER |

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INTERIOR ROOM LAMP CONTROL SYSTEM

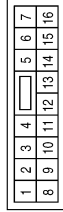
< COMPONENT DIAGNOSIS >

| | |
|-----------------|--|
| Connector No. | D8 |
| Connector Name | MAIN POWER WINDOW AND LOCK/UNLOCK SWITCH |
| Connector Color | WHITE |



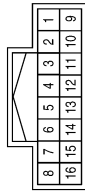
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 17 | B | GND |

| | |
|-----------------|--|
| Connector No. | D7 |
| Connector Name | MAIN POWER WINDOW AND LOCK/UNLOCK SWITCH |
| Connector Color | WHITE |



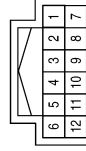
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | L/B | LOCK |
| 6 | L/R | UNLOCK |
| 14 | Y/G | COM |

| | |
|-----------------|--------------|
| Connector No. | D2 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | L/B | — |
| 4 | P/W | — |
| 9 | L/R | — |
| 10 | Y/G | — |
| 13 | R/W | — |

| | |
|-----------------|--------------|
| Connector No. | D102 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



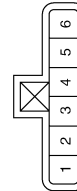
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | P/W | — |
| 11 | R/W | — |

| | |
|-----------------|--------------|
| Connector No. | D11 |
| Connector Name | STEP LAMP LH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P/W | — |
| 2 | R/W | — |

| | |
|-----------------|-----------------------------|
| Connector No. | D10 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY LH |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 4 | B | GND |
| 5 | L/R | DOOR_KEY/C_UNLOCK_SW |
| 6 | L/B | DOOR_KEY/C_LOCK_SW |

ALLIA0194GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

| | |
|-----------------|--------------|
| Connector No. | D109 |
| Connector Name | STEP LAMP RH |
| Connector Color | WHITE |



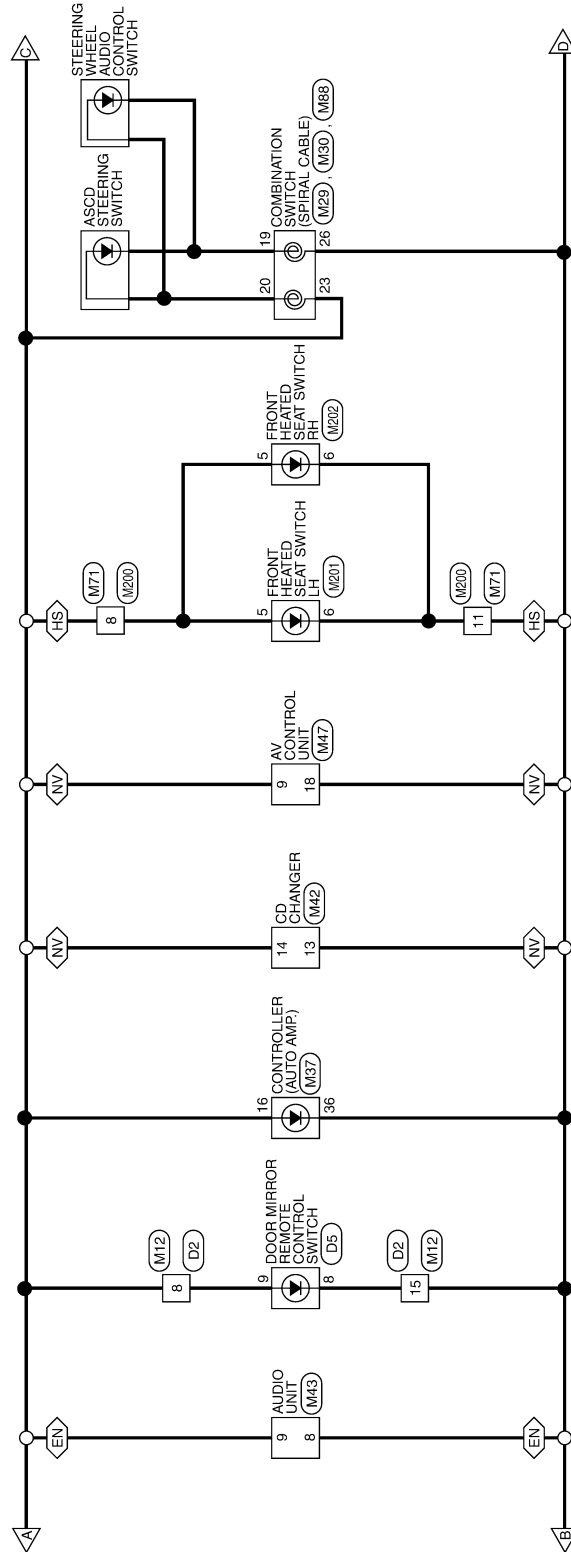
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P/W | — |
| 2 | R/W | — |

ALLIA0195GB

ILLUMINATION

< COMPONENT DIAGNOSIS >

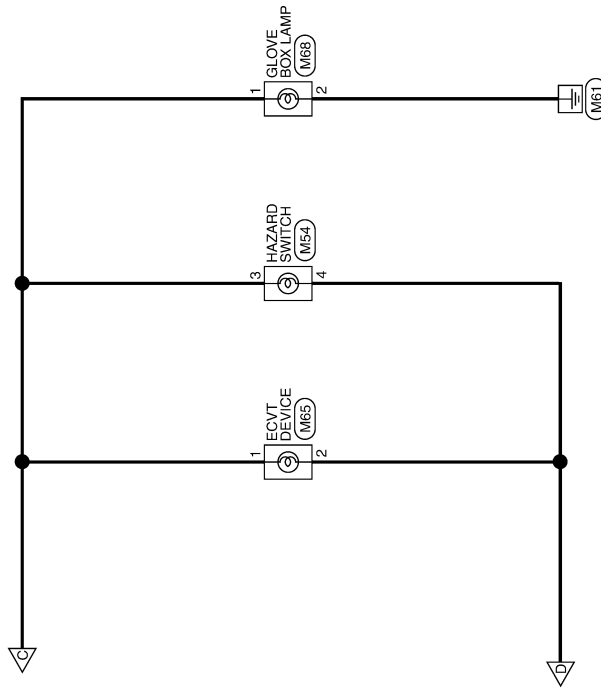
- EN : WITHOUT NAVI
- HS : WITH HEATED SEATS
- NV : WITH NAVI



ALLWA0033GB

ILLUMINATION

< COMPONENT DIAGNOSIS >



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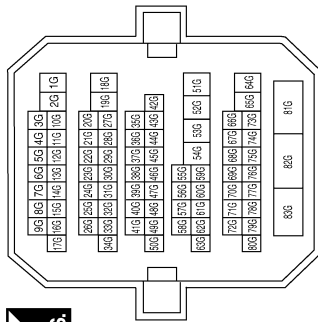
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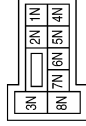
ILLUMINATION CONNECTORS

| | |
|-----------------|--------------|
| Connector No. | M1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | | | | | |
|--------------|-----|---------------|-----|-------------|---|
| Terminal No. | 82G | Color of Wire | W/B | Signal Name | — |
|--------------|-----|---------------|-----|-------------|---|

| | |
|-----------------|------------------|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1N | W/L | — |
| 7N | Y/R | — |

| | |
|-----------------|------------------|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| | |
|-----------------|------------------|
| Connector No. | M5 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



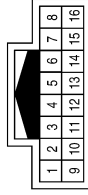
| | | | | | |
|--------------|----|---------------|-----|-------------|---|
| Terminal No. | 8Q | Color of Wire | R/L | Signal Name | — |
|--------------|----|---------------|-----|-------------|---|

| | | | | | |
|--------------|-----|---------------|---|-------------|---|
| Terminal No. | 12M | Color of Wire | P | Signal Name | — |
|--------------|-----|---------------|---|-------------|---|

ILLUMINATION

< COMPONENT DIAGNOSIS >

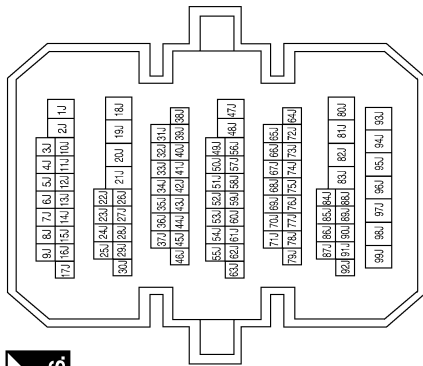
| | |
|-----------------|--------------|
| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R/L | — |
| 14 | R/Y | — |

| | | | | | |
|--------------|-----|---------------|----|-------------|---|
| Terminal No. | 17J | Color of Wire | SB | Signal Name | — |
|--------------|-----|---------------|----|-------------|---|

| | |
|-----------------|--------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | |
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| Connector No. | M17 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



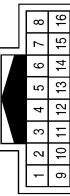
| | | | |
|--------------|----|-----|------------------------------|
| Terminal No. | 11 | Y/R | BAT_BCM_FUSE |
| | 13 | B | GND1 |
| | 14 | R/Y | LOW_SIDE_PUSH_LE D_OUTPUT |

| | |
|-----------------|---------------------------|
| Connector No. | M16 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| | | | | | |
|--------------|---|---------------|-----|-------------|---------------|
| Terminal No. | 1 | Color of Wire | W/B | Signal Name | BAT_POWER_F/L |
|--------------|---|---------------|-----|-------------|---------------|

| | |
|-----------------|--------------|
| Connector No. | M12 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | | | | | |
|--------------|----|---------------|-----|-------------|---|
| Terminal No. | 8 | Color of Wire | R/L | Signal Name | — |
| | 15 | R/Y | — | — | — |

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ILLUMINATION

< COMPONENT DIAGNOSIS >

| | |
|-----------------|-------------------|
| Connector No. | M24 |
| Connector Name | COMBINATION METER |
| Connector Color | WHITE |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 1 | W/L | BATT |
| 2 | O | IGN |
| 3 | B | GND |
| 4 | B | GND |
| 5 | R/Y | ILL OUTPUT |
| 9 | GR/W | SW ILL PWR |
| 10 | O/L | GND(SATLLITE SW) |
| 21 | L | CAN-H |
| 22 | P | CAN-L |
| 23 | B | GND |

| | |
|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 | 60 |
| 99 | 98 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 | 80 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 75 | R/Y | OUTPUT_5 |
| 76 | R/G | OUTPUT_3 |
| 78 | P | CAN-L |
| 79 | L | CAN-H |
| 95 | R/W | OUTPUT_1 |
| 96 | P/B | OUTPUT_4 |
| 97 | R/B | OUTPUT_2 |

| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GREEN |



| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | |
| 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 41 | W | PUSH_LED |
| 50 | LG/B | INPUT_5 |
| 51 | L/W | INPUT_1 |
| 52 | G/B | INPUT_2 |
| 53 | LG/R | INPUT_3 |
| 54 | G/Y | INPUT_4 |
| 58 | SB | DR_DOOR_SW |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | G/Y | OUTPUT_4 |
| 5 | LG/R | OUTPUT_3 |
| 7 | R/G | INPUT_3 |
| 8 | LG/B | OUTPUT_5 |
| 9 | R/B | INPUT_2 |
| 10 | P/B | INPUT_4 |
| 11 | R/W | INPUT_1 |
| 12 | L/W | OUTPUT_1 |
| 13 | R/Y | INPUT_5 |
| 14 | G/B | OUTPUT_2 |

| | |
|-----------------|--------------------|
| Connector No. | M28 |
| Connector Name | COMBINATION SWITCH |
| Connector Color | WHITE |



| | | | | | | | |
|---|---|---|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | | |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

| | |
|-----------------|-------------------|
| Connector No. | M25 |
| Connector Name | METER MODE SWITCH |
| Connector Color | BLACK |



| | | | | |
|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |


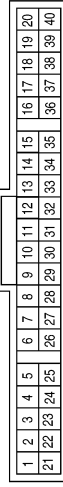
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 6 | O/L | GND(SATLLITE SW) |
| 7 | GR/W | SW ILL PWR |

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ILLUMINATION


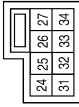
< COMPONENT DIAGNOSIS >

| | |
|-----------------|------------------------|
| Connector No. | M37 |
| Connector Name | CONTROLLER (AUTO AMP.) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 16 | R/L | ILL + |
| 36 | R/Y | ILL- |

| | |
|-----------------|-----------------------------------|
| Connector No. | M30 |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Color | GRAY |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 26 | R/Y | ILL CONT OUT |

| | |
|-----------------|-----------------------------------|
| Connector No. | M29 |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Color | YELLOW |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 23 | R/L | TAIL/ILL_RLY |

| | |
|-----------------|------------|
| Connector No. | M43 |
| Connector Name | AUDIO UNIT |
| Connector Color | WHITE |




| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 8 | R/Y | ILL CONT OUT |
| 9 | R/L | TAIL/ILL_RLY |

| | |
|-----------------|------------|
| Connector No. | M42 |
| Connector Name | CD CHANGER |
| Connector Color | WHITE |




| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 13 | R/Y | ILL - |
| 14 | R/L | ILL + |

| | |
|-----------------|-------------------------------|
| Connector No. | M38 |
| Connector Name | PUSH-BUTTON (IGNITION SWITCH) |
| Connector Color | BROWN |




| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | O/W | — |
| 3 | W | PUSH_LED |

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ILLUMINATION

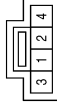
< COMPONENT DIAGNOSIS >

| | |
|-----------------|-------------|
| Connector No. | M65 |
| Connector Name | ECVT DEVICE |
| Connector Color | BROWN |



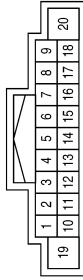
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 1 | R/L | TAIL/ILL_RLY |
| 2 | R/Y | ILL_CONT_OUT |

| | |
|-----------------|---------------|
| Connector No. | M54 |
| Connector Name | HAZARD SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 3 | R/L | TAIL/ILL_RLY |
| 4 | R/Y | ILL_CONT_OUT |

| | |
|-----------------|-----------------|
| Connector No. | M47 |
| Connector Name | AV CONTROL UNIT |
| Connector Color | WHITE |



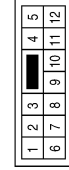
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/L | ILL |
| 18 | R/Y | ILL_CONT |

| | |
|-----------------|---------|
| Connector No. | M80 |
| Connector Name | DIODE-3 |
| Connector Color | — |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------------------|
| 1 | O/W | LOW_SIDE_PUSH_LE D_OUTPUT |
| 2 | R/Y | ILL_CONT_OUT |

| | |
|-----------------|--------------|
| Connector No. | M71 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | R/L | — |
| 11 | R/Y | — |

| | |
|-----------------|----------------|
| Connector No. | M68 |
| Connector Name | GLOVE BOX LAMP |
| Connector Color | WHITE |



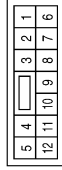
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 1 | R/L | TAIL/ILL_RLY |
| 2 | B | GND |

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ILLUMINATION

< COMPONENT DIAGNOSIS >

| | |
|-----------------|--------------|
| Connector No. | M200 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | R/L | — |
| 11 | R/Y | — |

| | |
|-----------------|--------------|
| Connector No. | M89 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | L | — |
| 8 | P | — |

| | |
|-----------------|-----------------------------------|
| Connector No. | M88 |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 19 | P | ILL |
| 20 | Y | ILL |

| | |
|-----------------|------------------|
| Connector No. | E6 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9P | R/L | — |

| | |
|-----------------|-----------------------------|
| Connector No. | M202 |
| Connector Name | FRONT HEATED SEAT SWITCH RH |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 5 | R/L | TAIL/ILL_RLY |
| 6 | R/Y | ILL_CONT_OUT |

| | |
|-----------------|-----------------------------|
| Connector No. | M201 |
| Connector Name | FRONT HEATED SEAT SWITCH LH |
| Connector Color | WHITE |



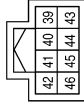
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 5 | R/L | TAIL/ILL_RLY |
| 6 | R/Y | ILL_CONT_OUT |

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ILLUMINATION

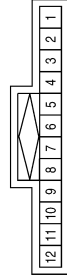
< COMPONENT DIAGNOSIS >

| | |
|-----------------|--|
| Connector No. | E17 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



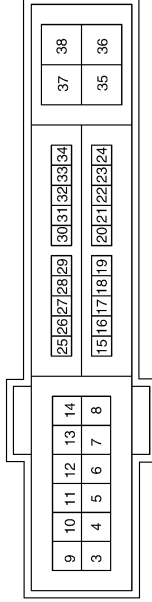
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 39 | P | CAN-L |
| 40 | L | CAN-H |
| 41 | B | S-GND |

| | |
|-----------------|---------------------|
| Connector No. | E59 |
| Connector Name | JOINT CONNECTOR-E07 |
| Connector Color | BLUE |



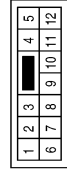
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L | - |
| 7 | P | - |
| 8 | P | - |

| | |
|-----------------|--|
| Connector No. | E18 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



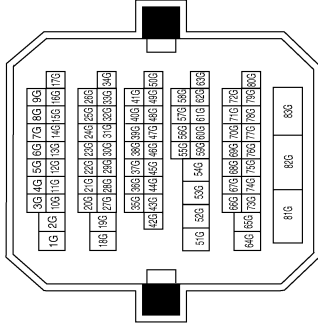
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | R/L | TAIL/ILLUMI |
| 12 | B | P-GND |

| | |
|-----------------|--------------|
| Connector No. | E64 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | L | - |
| 8 | P | - |

| | |
|-----------------|--------------|
| Connector No. | E30 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

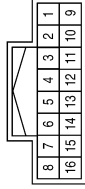


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 82G | W/B | - |

ILLUMINATION

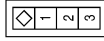
< COMPONENT DIAGNOSIS >

| | |
|-----------------|--------------|
| Connector No. | R1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



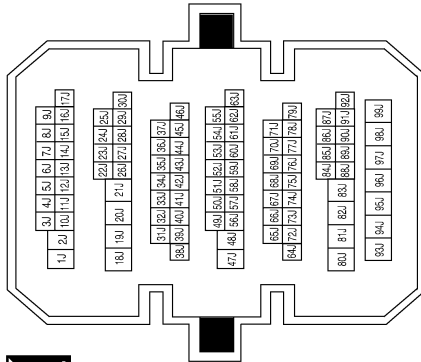
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | L | — |
| 14 | Y | — |

| | |
|-----------------|----------------------|
| Connector No. | B8 |
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Color | WHITE |



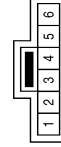
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | SB | DOOR SW(DR) |

| | |
|-----------------|--------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 17J | SB | — |

| | |
|-----------------|--------------|
| Connector No. | R50 |
| Connector Name | WIRE TO WIRE |
| Connector Color | GRAY |



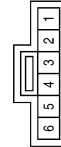
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | Y | — |
| 6 | L | — |

| | |
|-----------------|--------------|
| Connector No. | R16 |
| Connector Name | CONSOLE LAMP |
| Connector Color | — |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 1 | L | TAIL/ILL-FLY |
| 2 | Y | ILL_CONT_OUT |

| | |
|-----------------|--------------|
| Connector No. | R10 |
| Connector Name | WIRE TO WIRE |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | Y | — |
| 6 | L | — |

ALLIA0203GB

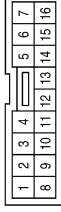
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ILLUMINATION

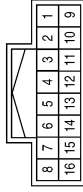
< COMPONENT DIAGNOSIS >

| | |
|-----------------|-----------------------------------|
| Connector No. | D5 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 8 | R/Y | ILL_CONT_OUT |
| 9 | R/L | TAIL/ILL_RLY |

| | |
|-----------------|--------------|
| Connector No. | D2 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | R/L | — |
| 15 | R/Y | — |

| | |
|-----------------|--------------|
| Connector No. | R54 |
| Connector Name | CONSOLE LAMP |
| Connector Color | — |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 1 | L | TAIL/ILL_RLY |
| 2 | Y | ILL_CONT_OUT |

AWLIA0715GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000003303315

VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | Value/Status |
|----------------|---|----------------------------------|
| FR WIPER HI | Other than front wiper switch HI | OFF |
| | Front wiper switch HI | ON |
| FR WIPER LOW | Other than front wiper switch LO | OFF |
| | Front wiper switch LO | ON |
| FR WASHER SW | Front washer switch OFF | OFF |
| | Front washer switch ON | ON |
| FR WIPER INT | Other than front wiper switch INT | OFF |
| | Front wiper switch INT | ON |
| FR WIPER STOP | Front wiper is not in STOP position | OFF |
| | Front wiper is in STOP position | ON |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | Wiper intermittent dial position |
| TURN SIGNAL R | Other than turn signal switch RH | OFF |
| | Turn signal switch RH | ON |
| TURN SIGNAL L | Other than turn signal switch LH | OFF |
| | Turn signal switch LH | ON |
| TAIL LAMP SW | Other than lighting switch 1ST and 2ND | OFF |
| | Lighting switch 1ST or 2ND | ON |
| HI BEAM SW | Other than lighting switch HI | OFF |
| | Lighting switch HI | ON |
| HEAD LAMP SW 1 | Other than lighting switch 2ND | OFF |
| | Lighting switch 2ND | ON |
| HEAD LAMP SW 2 | Other than lighting switch 2ND | OFF |
| | Lighting switch 2ND | ON |
| PASSING SW | Other than lighting switch PASS | OFF |
| | Lighting switch PASS | ON |
| AUTO LIGHT SW | Other than lighting switch AUTO | OFF |
| | Lighting switch AUTO | ON |
| FR FOG SW | Front fog lamp switch OFF | OFF |
| | Front fog lamp switch ON | ON |
| DOOR SW-DR | Front door LH closed | OFF |
| | Front door LH opened | ON |
| DOOR SW-AS | Front door RH closed | OFF |
| | Front door RH opened | ON |
| DOOR SW-RR | Rear door RH closed | OFF |
| | Rear door RH opened | ON |
| DOOR SW-RL | Rear door LH closed | OFF |
| | Rear door LH opened | ON |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Monitor Item | Condition | Value/Status |
|-----------------------------|---|--------------|
| DOOR SW-BK | NOTE: This item is displayed, but cannot be monitored. | OFF |
| CDL LOCK SW | Other than power door lock switch LOCK | OFF |
| | Door lock/unlock switch LOCK | ON |
| CDL UNLOCK SW | Other than door lock/unlock switch UNLOCK | OFF |
| | Door lock/unlock switch UNLOCK | ON |
| KEY CYL LK-SW | Other than front door LH key cylinder LOCK position | OFF |
| | Front door LH key cylinder LOCK position | ON |
| KEY CYL UN-SW | Other than front door LH key cylinder UNLOCK position | OFF |
| | Front door LH key cylinder UNLOCK position | ON |
| KEY CYL SW-TR | NOTE: This item is displayed, but cannot be monitored. | OFF |
| HAZARD SW | When hazard switch is not pressed | OFF |
| | When hazard switch is pressed | ON |
| REAR DEF SW | When rear window defogger switch is pressed | ON |
| FAN ON SIG | When AUTO switch or fan switch is pressed | ON |
| AIR COND SW | When A/C switch is pressed | ON |
| TR CANCEL SW | Trunk lid opener cancel switch OFF | OFF |
| | Trunk lid opener cancel switch ON | ON |
| TR/BD OPEN SW | Trunk lid opener switch OFF | OFF |
| | While the trunk lid opener switch is turned ON | ON |
| TRNK/HAT MNTR | Trunk lid closed | OFF |
| | Trunk lid opened | ON |
| RKE-LOCK | When LOCK button of Intelligent Key is not pressed | OFF |
| | When LOCK button of Intelligent Key is pressed | ON |
| RKE-UNLOCK | When UNLOCK button of Intelligent Key is not pressed | OFF |
| | When UNLOCK button of Intelligent Key is pressed | ON |
| RKE-TR/BD | When TRUNK OPEN button of Intelligent Key is not pressed | OFF |
| | When TRUNK OPEN button of Intelligent Key is pressed | ON |
| RKE-PANIC | When PANIC button of Intelligent Key is not pressed | OFF |
| | When PANIC button of Intelligent Key is pressed | ON |
| RKE-P/W OPEN | When UNLOCK button of Intelligent Key is not pressed and held | OFF |
| | When UNLOCK button of Intelligent Key is pressed and held | ON |
| RKE-MODE CHG | When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously | OFF |
| | When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously | ON |
| OPTICAL (LIGHT) SEN- SOR | When outside of the vehicle is bright | Close to 5 V |
| | When outside of the vehicle is dark | Close to 0 V |
| REQ SW-DR | When front door LH request switch is not pressed | OFF |
| | When front door LH request switch is pressed | ON |
| REQ SW-AS | When front door RH request switch is not pressed | OFF |
| | When front door RH request switch is pressed | ON |
| REQ SW-BD/TR | When trunk request switch is not pressed | OFF |
| | When trunk request switch is pressed | ON |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Monitor Item | Condition | Value/Status | |
|---------------|---|--------------|-----|
| PUSH SW | When push-button ignition switch is not pressed | OFF | A |
| | When push-button ignition switch is pressed | ON | |
| IGN RLY -F/B | Ignition switch OFF or ACC | OFF | B |
| | Ignition switch ON | ON | |
| ACC RLY -F/B | Ignition switch OFF | OFF | C |
| | Ignition switch ACC or ON | ON | |
| BRAKE SW 1 | When the brake pedal is not depressed | ON | |
| | When the brake pedal is depressed | OFF | D |
| DETE/CANCL SW | When selector lever is in P position | OFF | |
| | When selector lever is in any position other than P | ON | E |
| SFT PN/N SW | When selector lever is in any position other than P or N | OFF | |
| | When selector lever is in P or N position | ON | F |
| S/L -LOCK | Electronic steering column lock LOCK status | OFF | |
| | Electronic steering column lock UNLOCK status | ON | G |
| S/L -UNLOCK | Electronic steering column lock UNLOCK status | OFF | |
| | Electronic steering column lock LOCK status | ON | H |
| S/L RELAY-F/B | Ignition switch OFF or ACC | OFF | |
| | Ignition switch ON | ON | I |
| UNLK SEN-DR | Front door LH UNLOCK status | OFF | |
| | Front door LH LOCK status | ON | J |
| PUSH SW -IPDM | When push-button ignition switch is not pressed (IPDM E/R sends via CAN) | OFF | |
| | When push-button ignition switch is pressed (IPDM E/R sends via CAN) | ON | K |
| IGN RLY1 F/B | Ignition switch OFF or ACC | OFF | |
| | Ignition switch ON | ON | |
| DETE SW -IPDM | When selector lever is in P position (IPDM E/R sends via CAN) | OFF | |
| | When selector lever is in any position other than P (IPDM E/R sends via CAN) | ON | INL |
| SFT PN -IPDM | When selector lever is in any position other than P or N (IPDM E/R sends via CAN) | OFF | |
| | When selector lever is in P or N position (IPDM E/R sends via CAN) | ON | M |
| SFT P -MET | When selector lever is in any position other than P (combination meter sends via CAN) | OFF | |
| | When selector lever is in P position (combination meter sends via CAN) | ON | N |
| SFT N -MET | When selector lever is in any position other than N (combination meter sends via CAN) | OFF | |
| | When selector lever is in N position (combination meter sends via CAN) | ON | O |
| ENGINE STATE | Engine stopped | STOP | |
| | While the engine stalls | STALL | P |
| | At engine cranking | CRANK | |
| | Engine running | RUN | |
| S/L LOCK-IPDM | Electronic steering column lock LOCK status (IPDM E/R sends via CAN) | OFF | |
| | Electronic steering column lock UNLOCK status (IPDM E/R sends via CAN) | ON | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Monitor Item | Condition | Value/Status |
|----------------|--|--|
| S/L UNLCK-IPDM | Electronic steering column lock UNLOCK status (IPDM E/R sends via CAN) | OFF |
| | Electronic steering column lock LOCK status (IPDM E/R sends via CAN) | ON |
| S/L RELAY-REQ | Ignition switch OFF or ACC | OFF |
| | Ignition switch ON | ON |
| VEH SPEED 1 | While driving | Equivalent to speedometer reading |
| VEH SPEED 2 | While driving | Equivalent to speedometer reading |
| DR DOOR STATE | Front door LH LOCK status | LOCK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Front door LH UNLOCK status | UNLK |
| AS DOOR STATE | Front door RH LOCK status | LOCK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Front door RH UNLOCK status | UNLK |
| ID OK FLAG | Ignition switch ACC or ON | RESET |
| | Ignition switch OFF | SET |
| PRMT ENG STAT | When the hybrid system start is prohibited | RESET |
| | When the hybrid system start is permitted | SET |
| PRMT RKE STAT | NOTE: This item is displayed, but cannot be monitored. | RESET |
| KEY SW -SLOT | When Intelligent Key is not inserted into key slot | OFF |
| | When Intelligent Key is inserted into key slot | ON |
| RKE OPE COUN1 | During the operation of Intelligent Key | Operation frequency of Intelligent Key |
| RKE OPE COUN2 | NOTE: This item is displayed, but cannot be monitored. | Operation frequency of Intelligent Key |
| AIR PRESS FL | Ignition switch ON (only when the signal from the transmitter is received) | Air pressure of front LH tire |
| AIR PRESS FR | Ignition switch ON (only when the signal from the transmitter is received) | Air pressure of front RH tire |
| AIR PRESS RR | Ignition switch ON (only when the signal from the transmitter is received) | Air pressure of rear RH tire |
| AIR PRESS RL | Ignition switch ON (only when the signal from the transmitter is received) | Air pressure of rear LH tire |
| ID REGST FL1 | When ID of front LH tire transmitter is registered (refer to WT-6, "ID Registration Procedure") | DONE |
| | When ID of front LH tire transmitter is not registered (refer to WT-6, "ID Registration Procedure") | YET |
| ID REGST FR1 | When ID of front RH tire transmitter is registered (refer to WT-6, "ID Registration Procedure") | DONE |
| | When ID of front RH tire transmitter is not registered (refer to WT-6, "ID Registration Procedure") | YET |
| ID REGST RR1 | When ID of rear RH tire transmitter is registered (refer to WT-6, "ID Registration Procedure") | DONE |
| | When ID of rear RH tire transmitter is not registered (refer to WT-6, "ID Registration Procedure") | YET |
| ID REGST RL1 | When ID of rear LH tire transmitter is registered (refer to WT-6, "ID Registration Procedure") | DONE |
| | When ID of rear LH tire transmitter is not registered (refer to WT-6, "ID Registration Procedure") | YET |

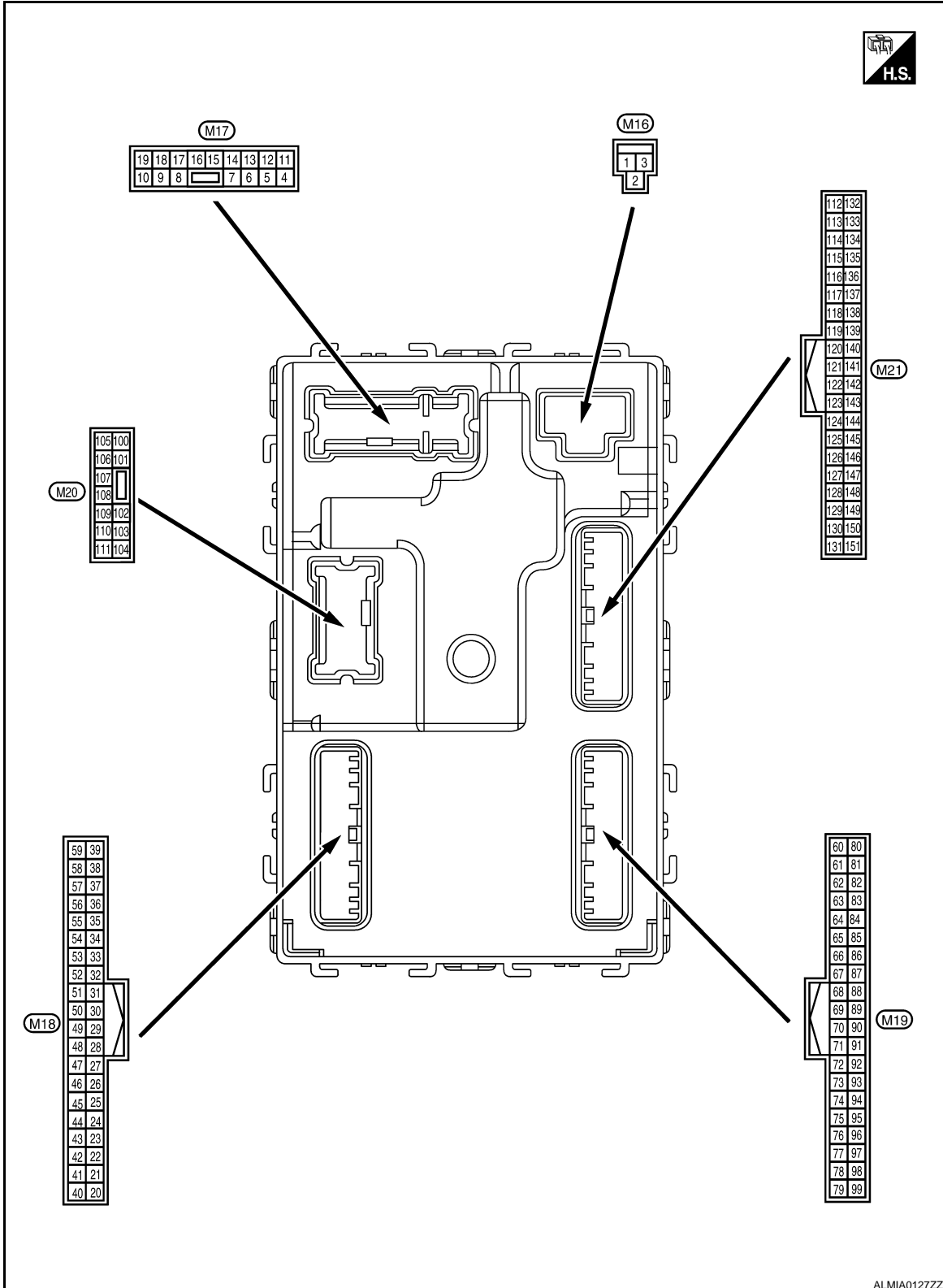
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Monitor Item | Condition | Value/Status |
|--------------|-----------------------------|--------------|
| WARNING LAMP | Tire pressure indicator OFF | OFF |
| | Tire pressure indicator ON | ON |

Terminal Layout

INFOID:000000003303316



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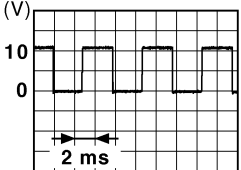
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Physical Values

INFOID:000000003303317

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|--|---|--|
| (+) | (-) | Signal name | Input/ Output | | | |
| 1 (W/B) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 2 (R/Y) | Ground | Battery power supply output | Output | Ignition switch OFF | | Battery voltage |
| 3 (L/W) | Ground | Ignition power supply output | Output | Ignition switch ON | | Battery voltage |
| 4 (P/W) | Ground | Interior room lamp power supply | Output | After passing the interior room lamp battery saver operation time | | 0V |
| | | | | Any other time after passing the interior room lamp battery saver operation time | | Battery voltage |
| 5 (G/Y) | Ground | Front door RH UNLOCK | Output | Front door RH | UNLOCK (actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 7 (R/W) | Ground | Step lamp | Output | Room lamp timer | ON | Battery voltage |
| | | | | | OFF | 0V |
| 8 (V) | Ground | All doors LOCK | Output | All doors | LOCK (actuator is activated) | Battery voltage |
| | | | | | Other than LOCK (actuator is not activated) | 0V |
| 9 (G) | Ground | Front door LH UNLOCK | Output | Front door LH | UNLOCK (actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 10 (G/Y) | Ground | Rear door RH and rear door LH UNLOCK | Output | Rear door RH and rear door LH | UNLOCK (actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 11 (Y/R) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 13 (B) | Ground | Ground | — | Ignition switch ON | | 0V |
| 14 (R/Y) | Ground | Push-button ignition switch illumination ground | Input | Tail lamp | OFF | 0V |
| | | | | | ON | <p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right;">JSNIA0010GB</p> |
| 15 (Y/L) | Ground | ACC indicator lamp | Output | Ignition switch | OFF | Battery voltage |
| | | | | | ACC | 0V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

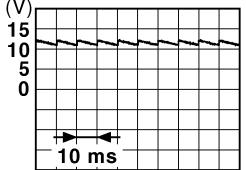
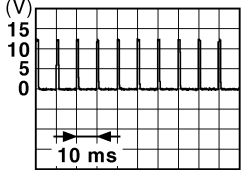
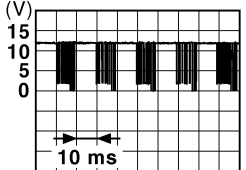
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---|---------------------------------|---|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 17 (G/B) | Ground | Turn signal (RH) | Output | Ignition switch ON | Turn signal switch OFF 0V |
| | | | | Turn signal switch RH | |
| 18 (G/O) | Ground | Turn signal (LH) | Output | Ignition switch ON | Turn signal switch OFF 0V |
| | | | | Turn signal switch LH | |
| 19 (Y) | Ground | Room lamp timer control | Output | Interior room lamp | Lamps fully OFF Battery voltage |
| | | | | Lamps fully ON | 0V |
| 21 (P/B) | Ground | Optical sensor signal | Input | Ignition switch ON | When outside of the vehicle is bright Close to 5V |
| | | | | When outside of the vehicle is dark Close to 0V | |
| 24 (R/W) | Ground | Stop lamp switch 1 | Input | — | Battery voltage |
| 26 (O/L) | Ground | Stop lamp switch 2 | Input | Stop lamp switch | OFF (brake pedal is not depressed) 0V |
| | | | | ON (brake pedal is depressed) Battery voltage | |
| | | | ICC brake hold relay (with ICC) | OFF 0V | |
| | | | | ON Battery voltage | |
| 27 (G/W) | Ground | Front door lock assembly LH (unlock sensor) | Input | Front door LH | LOCK status |
| | | | | UNLOCK status 0V | |
| 29 (Y) | Ground | Key slot switch | Input | When Intelligent Key is inserted into key slot Battery voltage | |
| | | | | When Intelligent Key is not inserted into key slot 0V | |
| 30 (V/Y) | Ground | ACC feedback signal | Input | Ignition switch | OFF 0 |
| | | | | ACC or ON Battery voltage | |
| 31 (G) | Ground | Ignition relay-2 feedback signal | Input | Ignition switch | OFF 0V |
| | | | | ON Battery voltage | |

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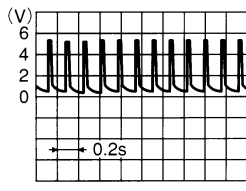
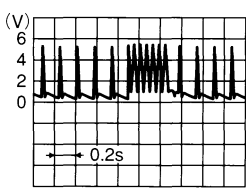
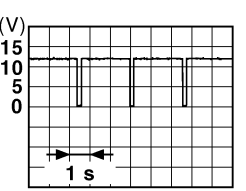
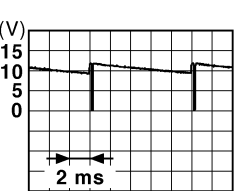
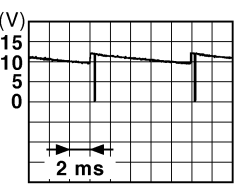
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|---|--|--|
| (+) | (-) | Signal name | Input/ Output | | | |
| 32 (R/B) | Ground | Front door RH switch | Input | Front door RH switch | OFF (when front door RH closes) |  <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p> |
| | | | | | ON (when front door RH opens) | 0V |
| 33 (SB) | Ground | Compressor ON signal | Input | A/C switch | OFF | Battery voltage |
| | | | | | ON | 0V |
| 34* (L/R) | Ground | Front door lock assembly LH (key cylinder switch) (unlock) | Input | Front door lock assembly LH (key cylinder switch) | OFF (neutral) | Battery voltage |
| | | | | | ON (unlock) | 0V |
| 36* (GR) | Ground | Lock switch signal | Input | Door lock/unlock switch | Lock | Battery Voltage |
| | | | | | Unlock | 0V |
| 37 (O) | Ground | Trunk lid opener cancel switch | Input | Trunk lid opener cancel switch | CANCEL |  <p style="text-align: right; font-size: small;">JPMIA0012GB</p> <p style="text-align: center;">1.1V</p> |
| | | | | | ON | 0V |
| 38 (GR/W) | Ground | Rear window defogger ON signal | Input | Rear window defogger switch | OFF | Battery Voltage V |
| | | | | | ON | 0V |
| 39* (GR/R) | Ground | Unlock switch signal | Input | Door lock/unlock switch | Unlock | Battery Voltage |
| | | | | | Lock | 0V |
| 40* (Y/G) | Ground | Power window serial link | Input/ Output | Ignition switch ON |  <p style="text-align: right; font-size: small;">JPMIA0013GB</p> <p style="text-align: center;">10.2V</p> | |
| | | | | Ignition switch OFF or ACC | 0V | |
| 41 (W) | Ground | Push-button ignition switch illumination | Output | Engine switch (push switch) illumination | ON | 5.5V |
| | | | | | OFF | 0V |
| 42 (R) | Ground | LOCK indicator lamp | Output | LOCK indicator lamp | ON | 0V |
| | | | | | OFF | Battery voltage |
| 45 (P) | Ground | Receiver & sensor ground | Input | Ignition switch ON | 0V | |

BCM (BODY CONTROL MODULE)

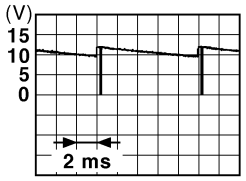
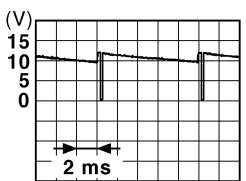
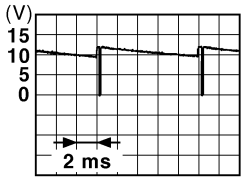
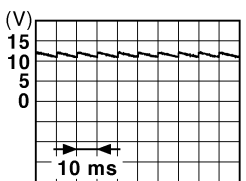
< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|--|------------------|--|---|--|
| | | Signal name | Input/ Output | | | |
| (+) | (-) | | | | | |
| 46 (V/W) | Ground | Receiver & sensor power supply output | Output | Ignition switch | OFF | 0V |
| | | | | | ACC or ON | 5.0V |
| 47 (G/O) | Ground | Tire pressure receiver signal | Input/ Output | Ignition switch ON | Standby state |  OCC3881D |
| | | | | | When receiving the signal from the transmitter |  OCC3880D |
| 48 (R/B) | Ground | Selector lever P/N position signal | Input | Selector lever | P or N position | 12.0V |
| | | | | | Except P and N positions | 0V |
| 49 (L/O) | Ground | Security indicator signal | Output | Security indicator | Blinking |  JPMA0014GB 11.3V |
| | | | | | OFF | Battery voltage |
| 50 (LG/ B) | Ground | Combination switch OUTPUT 5 | Output | Combination switch (Wiper intermittent dial 4) | All switch OFF | 0V |
| | | | | | Lighting switch 1ST |  JPMA0031GB 10.7V |
| | | | | | Lighting switch high-beam | |
| | | | | | Lighting switch 2ND | |
| Turn signal switch RH | | | | | | |
| 51 (L/W) | Ground | Combination switch OUTPUT 1 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) | 0V |
| | | | | | Front wiper switch HI (Wiper intermittent dial 4) |  JPMA0032GB 10.7V |
| | | Any of the conditions below with all switch OFF | | | | |
| | | | | | <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|--|------------------|---|---|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 52 (G/B) | Ground | Combination switch OUTPUT 2 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) | 0V |
| | | | | | Front washer switch ON (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0033GB</p> |
| | | | | | Any of the conditions below with all switch OFF | |
| | | | | | <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 | |
| | | | | | 10.7V | |
| 53 (LG/ R) | Ground | Combination switch OUTPUT 3 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0V |
| | | | | | Front wiper switch INT |  <p style="text-align: right; font-size: small;">JPMIA0034GB</p> |
| | | | | | Front wiper switch LO | |
| | | | | | Lighting switch AUTO | |
| | | | | | 10.7V | |
| 54 (G/Y) | Ground | Combination switch OUTPUT 4 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0V |
| | | | | | Front fog lamp switch ON |  <p style="text-align: right; font-size: small;">JPMIA0035GB</p> |
| | | | | | Lighting switch 2ND | |
| | | | | | Lighting switch flash-to- pass | |
| | | | | | Turn signal switch LH | |
| | | | | | 10.7V | |
| 55 (BR/ W) | Ground | Front blower monitor | Input | Front blower mo- tor switch | ON | Battery voltage |
| | | | | | OFF | 0V |
| 56 (L/B) | Ground | Front door lock as- sembly LH (key cylin- der switch) (lock) | Input | Front door lock assembly LH (key cylinder switch) | OFF (neutral) | Battery voltage |
| | | | | | ON (lock) | 0V |
| 57 (W) | Ground | Tire pressure warn- ing check switch | Input | — | — | Battery voltage |
| 58 (SB) | Ground | Front door LH switch | Input | Front door LH switch | OFF (front door LH CLOSE) |  <p style="text-align: right; font-size: small;">JPMIA0011GB</p> |
| | | | | | ON (front door LH OPEN) | |
| 59 (G/R) | Ground | Rear window defog- ger relay | Output | Rear window de- fogger | Active | Battery voltage |
| | | | | | Not activated | 0V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

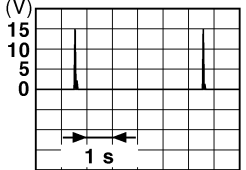
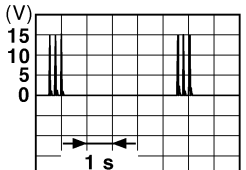
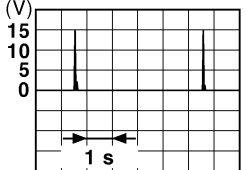
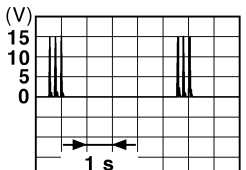
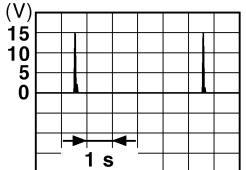
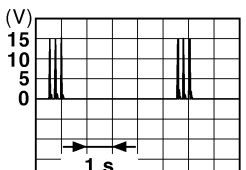
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------------|------------------|--|--------------------|
| (+) | (-) | Signal name | Input/ Output | | |
| 60 (B/R) | Ground | Front console antenna 2 (-) | Output | Ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment | <p>JMKIA0063GB</p> |
| 61 (W/R) | Ground | Center console antenna 2 (+) | Output | Ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment | <p>JMKIA0063GB</p> |
| 62 (B/Y) | Ground | Front outside handle RH antenna (-) | Output | When the front door RH request switch is operated with ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p>JMKIA0063GB</p> |

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BCM (BODY CONTROL MODULE)

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| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|--|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 63 (LG) | Ground | Front outside handle RH antenna (+) | Output | When the front door RH request switch is operated with ignition switch OFF |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 64 (V) | Ground | Front outside handle LH antenna (-) | Output | When the front door LH request switch is operated with ignition switch OFF |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 65 (P) | Ground | Front outside handle LH antenna (+) | Output | When the front door LH request switch is operated with ignition switch OFF |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |

BCM (BODY CONTROL MODULE)

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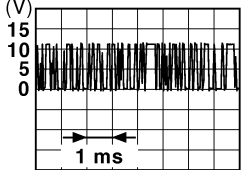
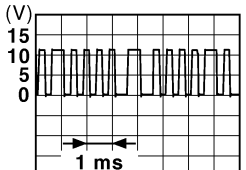

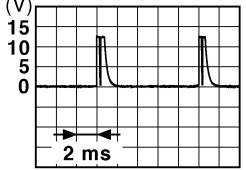

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--------------------------------------|------------------|--|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 66 (R) | Ground | Instrument panel antenna (-) | Output | Ignition switch OFF | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 67 (G) | Ground | Instrument panel antenna (+) | Output | Ignition switch OFF | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 68 (G/O) | Ground | NATS antenna amp (built in key slot) | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelligent Key into the key slot. Just after pressing ignition switch. Pointer of tester should move. |
| 69 (O) | Ground | NATS antenna amp (built in key slot) | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelligent Key into the key slot. Just after pressing ignition switch. Pointer of tester should move. |
| 70 (R/B) | Ground | Ignition relay-2 control | Output | Ignition switch OFF or ACC | 0V |
| | | | | ON | Battery voltage |

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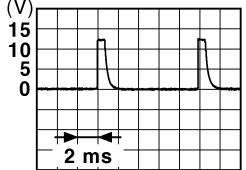
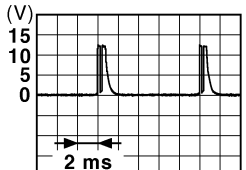

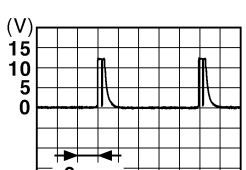
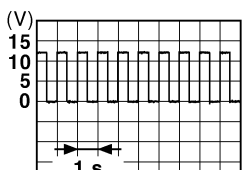
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|---|---|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 71 (L/O) | Ground | Remote keyless entry receiver signal | Input/ Output | During waiting |  <p style="text-align: right; font-size: small;">JMKIA0064GB</p> | |
| | | | | When operating either button on Intelligent Key |  <p style="text-align: right; font-size: small;">JMKIA0065GB</p> | |
| 75 (R/Y) | Ground | Combination switch INPUT 5 | Input | Combination switch | <p>Any of the conditions below with all switch OFF</p> <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 |  <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p> |
| | | | | Combination switch | Front fog lamp switch ON (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p> |
| | | | | Combination switch | Any of the conditions below with all switch OFF |  <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3V</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--------------------------------|------------------|--------------------------------|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 76 (R/G) | Ground | Combination switch INPUT 3 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4)  JPMIA0041GB 1.4V |
| | | | | | Lighting switch high-beam (Wiper intermittent dial 4)  JPMIA0036GB 1.3V |
| | | | | | Lighting switch 2ND (Wiper intermittent dial 4)  JPMIA0037GB 1.3V |
| | | | | | Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  JPMIA0040GB 1.3V |
| 77 (BR) | Ground | Push-button ignition switch | Input | Engine switch (push switch) | Pressed 0V Not pressed Battery voltage |
| 78 (P) | Ground | CAN-L | Input/ Output | — | — |
| 79 (L) | Ground | CAN-H | Input/ Output | — | — |
| 80 (R/L) | Ground | Key slot illumination | Output | Key slot illumina- tion | OFF 0V |
| | | | | | Blinking  JPMIA0015GB 6.5V |
| | | | | | ON Battery voltage |

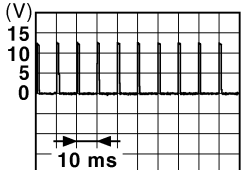
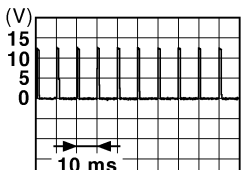
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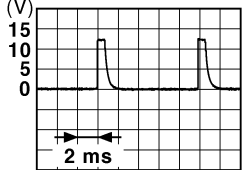
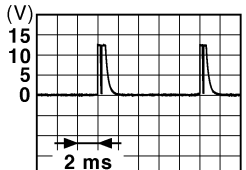

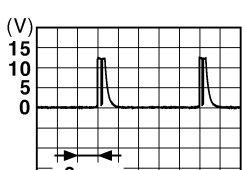

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|---------------------------------|---------------------------|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 81 (LG) | Ground | ON indicator lamp | Output | Ignition switch | OFF or ACC | Battery voltage |
| | | | | | ON | 0V |
| 83 (L) | Ground | ACC relay control | Output | Ignition switch | OFF | 0V |
| | | | | | ACC or ON | Battery voltage |
| 84 (Y/R) | Ground | ECTV device (detent switch) | Output | — | | Battery voltage |
| 85 (L/O) | Ground | Electronic steering column lock condition No. 1 | Input | Electronic steering column lock | Lock status | 0V |
| | | | | | Unlock status | Battery voltage |
| 86 (G/R) | Ground | Electronic steering column lock condition No. 2 | Input | Electronic steering column lock | Lock status | Battery voltage |
| | | | | | Unlock status | 0V |
| 87 (G/B) | Ground | ECTV device (detent switch) | Input | Selector lever | P position | 0V |
| | | | | | Any position other than P | Battery voltage |
| 88 (P/L) | Ground | Front door RH request switch | Input | Front door RH request switch | ON (pressed) | 0V |
| | | | | | OFF (not pressed) |  <p style="text-align: center;">1.0V</p> |
| 89 (B/W) | Ground | Front door LH request switch | Input | Front door LH request switch | ON (pressed) | 0V |
| | | | | | OFF (not pressed) |  <p style="text-align: center;">1.0V</p> |
| 90 (Y) | Ground | Front blower motor relay control | Output | Ignition switch | OFF or ACC | 0V |
| | | | | | ON | Battery voltage |
| 91 (L/R) | Ground | Remote keyless entry receiver power supply | Output | Ignition switch OFF | | Battery voltage |
| 94 (G/Y) | Ground | Electronic steering column lock CPU power supply | Output | Ignition switch | OFF or ACC | Battery voltage |
| | | | | | ON | 0V |

BCM (BODY CONTROL MODULE)

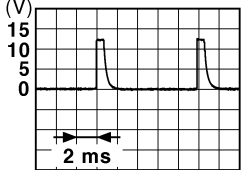
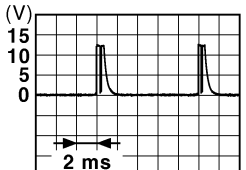
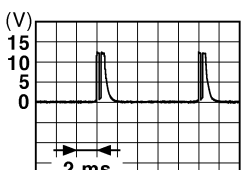
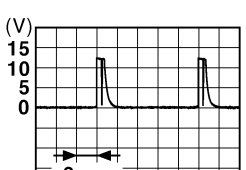
< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------|------------------|--|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 95 (R/W) | Ground | Combination switch INPUT 1 | Input | Combination switch (Wiper intermittent dial 4) | All switch OFF <div style="text-align: right;">  <p>1.4V</p> </div> |
| | | | | | Turn signal switch LH <div style="text-align: right;">  <p>1.3V</p> </div> |
| | | | | | Turn signal switch RH <div style="text-align: right;">  <p>1.3V</p> </div> |
| | | | | | Front wiper switch LO <div style="text-align: right;">  <p>1.3V</p> </div> |
| | | | | | Front washer switch ON <div style="text-align: right;">  <p>1.3V</p> </div> |

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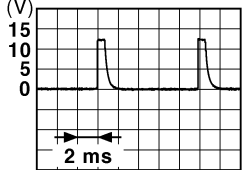
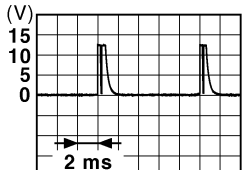

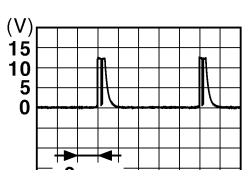

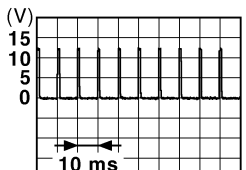
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|-----------------------|--|--|
| | | Signal name | Input/ Output | | | |
| (+) | (-) | | | | | |
| 96 (P/B) | Ground | Combination switch INPUT 4 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <p style="text-align: right; margin-right: 50px;">1.4V</p> |
| | | | | | Lighting switch AUTO (Wiper intermittent dial 4) |  <p style="text-align: right; margin-right: 50px;">1.3V</p> |
| | | | | | Lighting switch 1ST (Wiper intermittent dial 4) |  <p style="text-align: right; margin-right: 50px;">1.3V</p> |
| | | | | | Any of the conditions below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 |  <p style="text-align: right; margin-right: 50px;">1.3V</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|--|--|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 97 (R/B) | Ground | Combination switch INPUT 2 | Input | Combination switch (Wiper intermittent dial 4) | All switch OFF |  1.4V |
| | | | | | Lighting switch flash-to-pass |  1.3V |
| | | | | | Lighting switch 2ND |  1.3V |
| | | | | | Front wiper switch INT |  1.3V |
| | | | | | Front wiper switch HI |  1.3V |
| | | | | | Pressed | 0 V |
| 98 (G/R) | Ground | Hazard switch | Input | Hazard switch | Not pressed  1.1V | |

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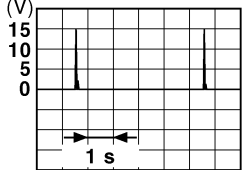
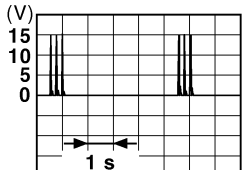
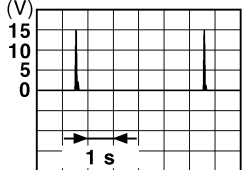
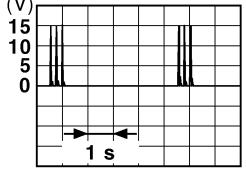
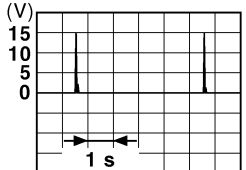
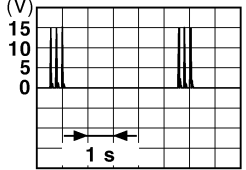
BCM (BODY CONTROL MODULE)

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| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|--------------------------------------|--|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 99 (L/Y) | Ground | Electronic steering column lock CPU communication | Input/ Output | Electronic steer- ing column lock | LOCK status | Battery voltage |
| | | | | | LOCK or UNLOCK | <p style="text-align: right; font-size: small;">JMKIA0066GB</p> |
| | | | | | For 15 seconds after UN- LOCK | Battery voltage |
| | | | | | 15 seconds or later after UNLOCK | 0V |
| 103 (V) | Ground | Trunk lid opening | Output | Trunk lid | Open (trunk lid opener ac- tuator is activated) | Battery voltage |
| | | | | | Close (trunk lid opener ac- tuator is not activated) | 0V |
| 110 (V/W) | Ground | Trunk room lamp | Output | Trunk room lamp | ON | 0V |
| | | | | | OFF | Battery voltage |
| 114 (B) | Ground | Trunk room antenna 1 (-) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | | When Intelligent Key is not in the passenger compart- ment | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |

BCM (BODY CONTROL MODULE)

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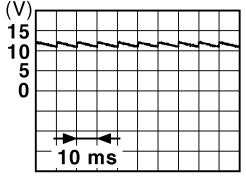
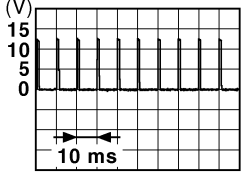
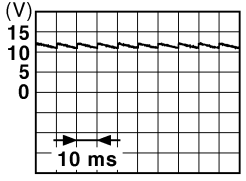
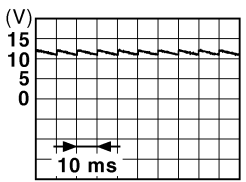
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|------------------------------|------------------|--|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 115 (W) | Ground | Trunk room antenna 1 (+) | Output | Ignition switch OFF |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compart- ment |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 118 (L/O) | Ground | Rear bumper anten- na (-) | Output | When the trunk lid request switch is operated with ignition switch OFF |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 119 (BR/ W) | Ground | Rear bumper anten- na (+) | Output | When the trunk lid request switch is operated with ignition switch OFF |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |

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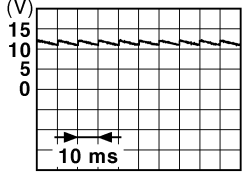
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|--------------------------------------|------------------|----------------------------|---|--|
| (+) | (-) | Signal name | Input/ Output | | | |
| 127 (BR/ W) | Ground | Ignition relay (IPDM E/R) control | Output | Ignition switch | OFF or ACC | Battery voltage |
| | | | | | ON | 0V |
| 130 (Y/G) | Ground | Trunk room lamp switch | Input | Trunk room lamp switch | OFF (trunk is closed) |  <p style="text-align: right; margin-right: 50px;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p> |
| | | | | | ON (trunk is open) | 0V |
| 132 (R) | Ground | Start signal | Output | Ignition switch ON | When selector lever is in P or N position and the brake peddle is not depressed | 0V |
| | | | | | When selector lever is in P or N position and the brake peddle is depressed | Battery voltage |
| 141 (G/R) | Ground | Trunk request switch | Input | Trunk request switch | ON (pressed) | 0V |
| | | | | | OFF (not pressed) |  <p style="text-align: right; margin-right: 50px;">JPMIA0016GB</p> <p style="text-align: center;">1.0V</p> |
| 144 (GR) | Ground | Request switch buzz- er | Output | Request switch buzzer | Sounding | 0V |
| | | | | | Not sounding | Battery voltage |
| 147 (L/R) | Ground | Trunk lid opener switch | Input | Trunk lid opener switch | Pressed | 0V |
| | | | | | Not pressed |  <p style="text-align: right; margin-right: 50px;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p> |
| 148 (R/W) | Ground | Rear door RH switch | Input | Rear door RH switch | OFF (when rear door RH closes) |  <p style="text-align: right; margin-right: 50px;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p> |
| | | | | | ON (when rear door RH opens) | 0V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---------------------|------------------|------------------------------|--------------------------------|--|
| | | Signal name | Input/ Output | | | |
| (+) | (-) | | | | | |
| 149 (R/B) | Ground | Rear door LH switch | Input | Rear door LH switch | OFF (when rear door LH closes) |  <p style="text-align: center;">11.8V</p> |
| | | | | ON (when rear door LH opens) | 0V | |

*: With LH and RH front window anti-pinch system

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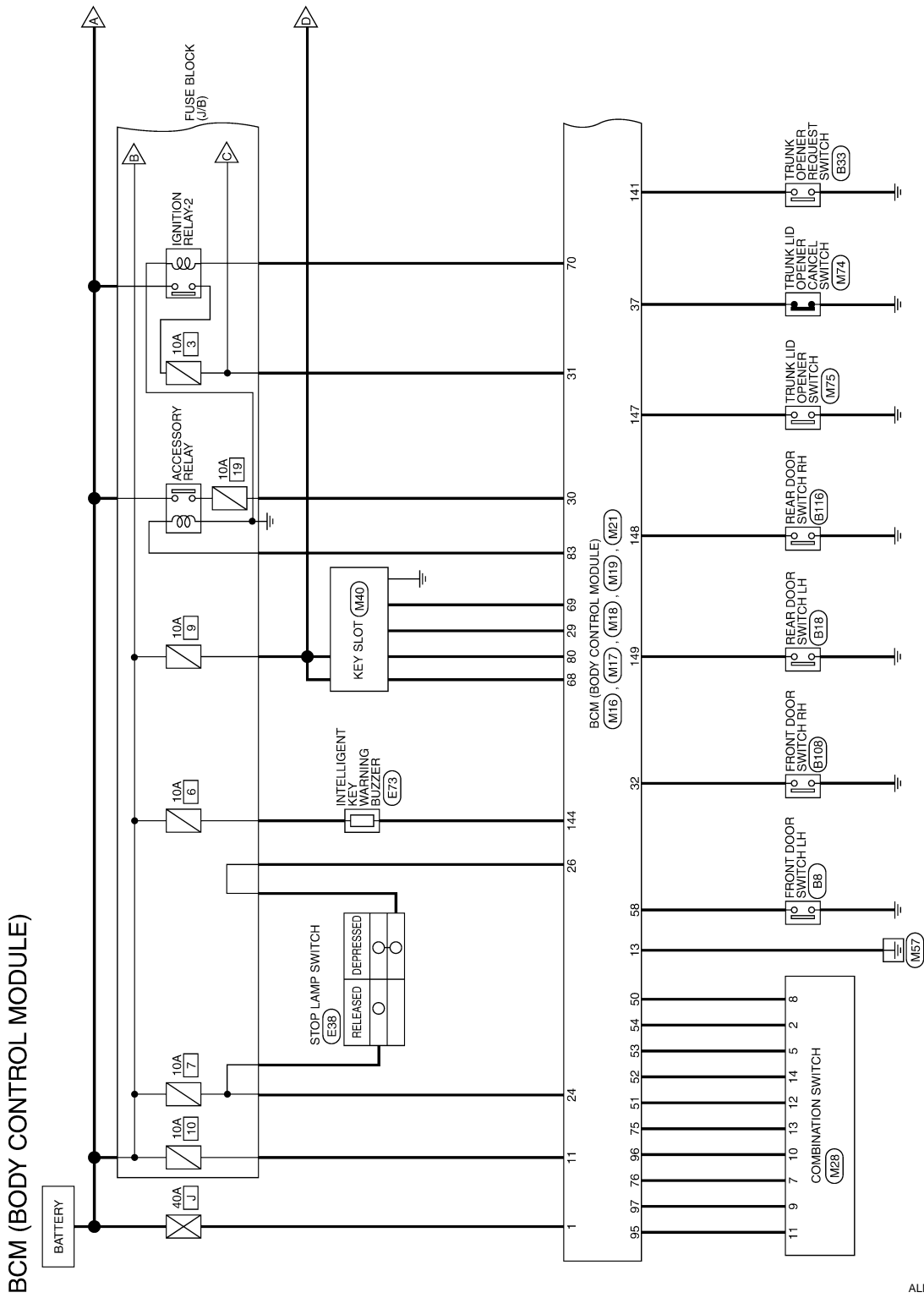
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Wiring Diagram

INFOID:000000003303318

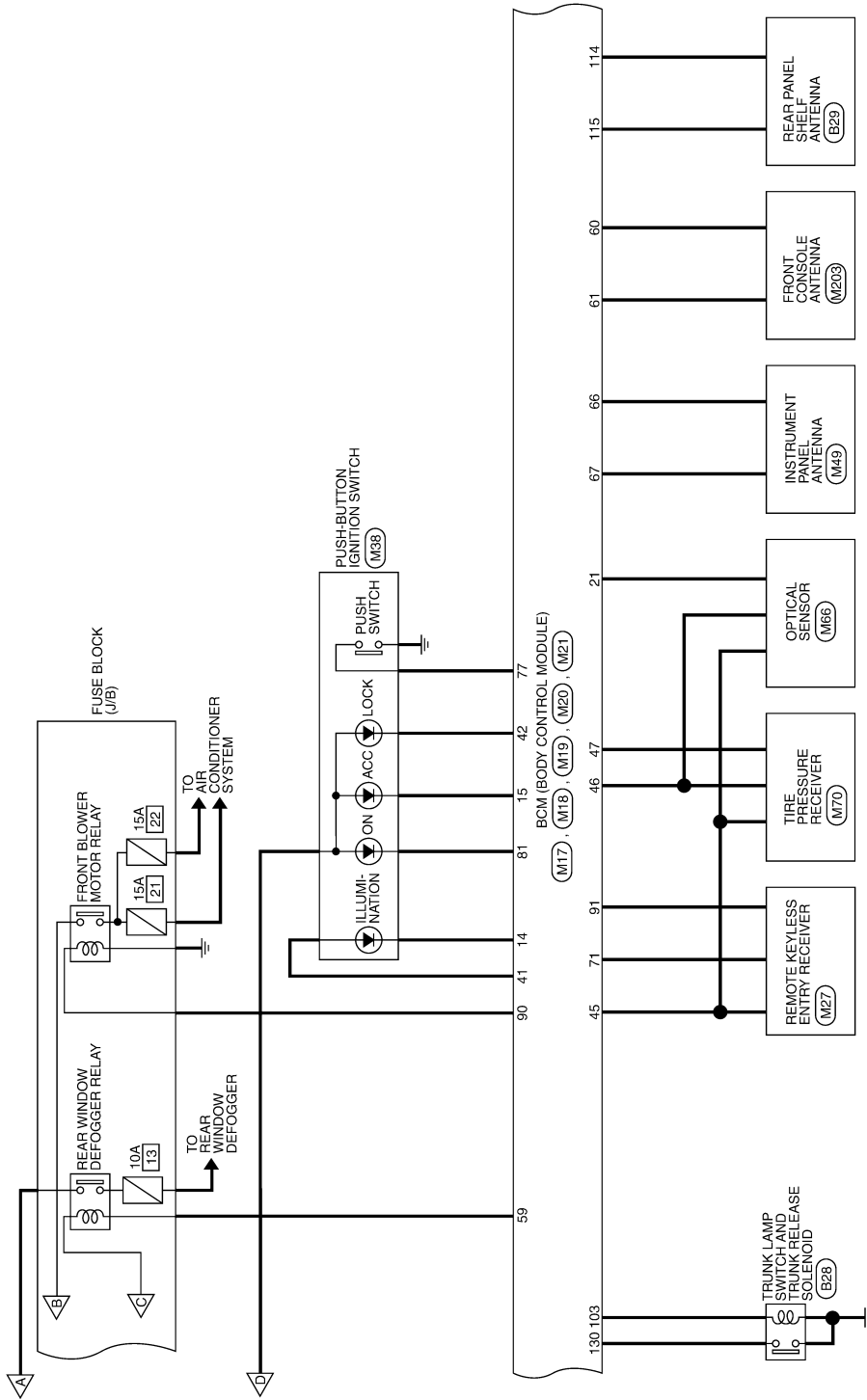


ALMWA0037GE

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

■ : DATA LINE



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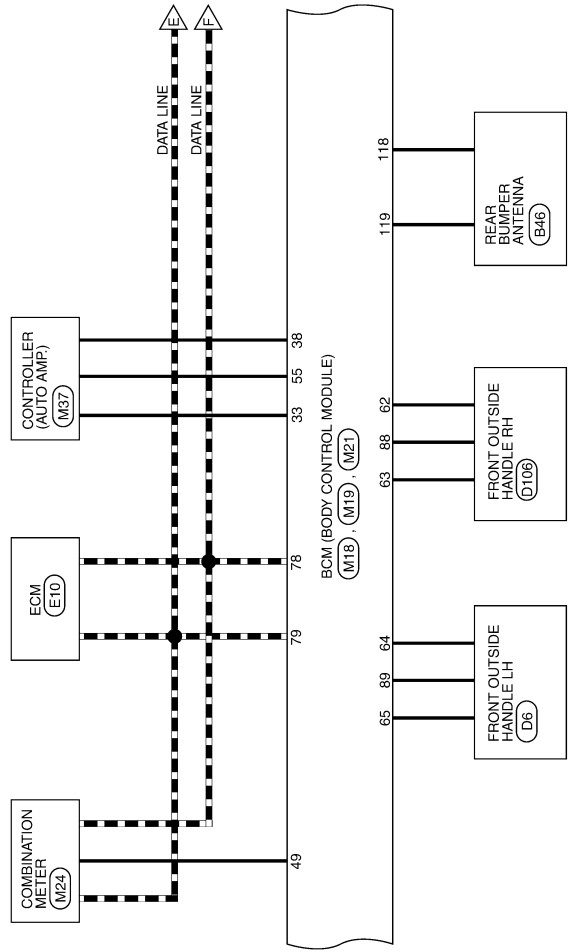
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ALMWA0038GE

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

▬ : DATA LINE

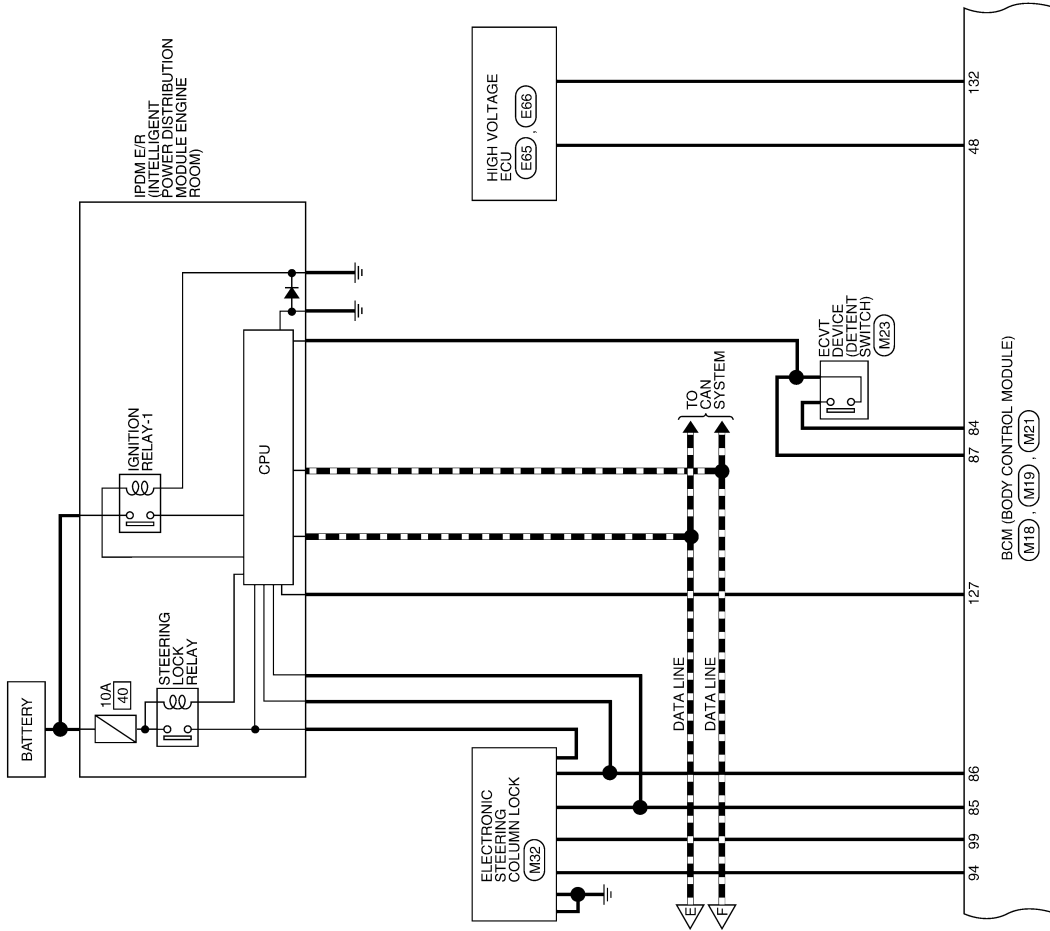


ALMWA0039Gf

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

--- : DATA LINE



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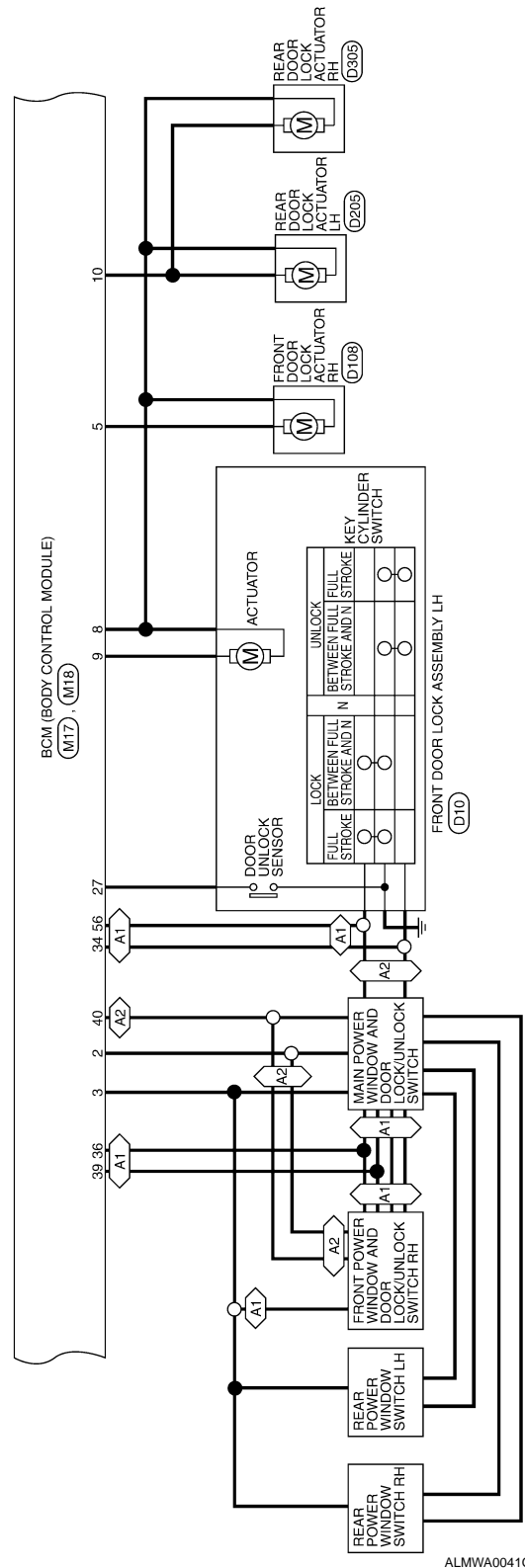
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

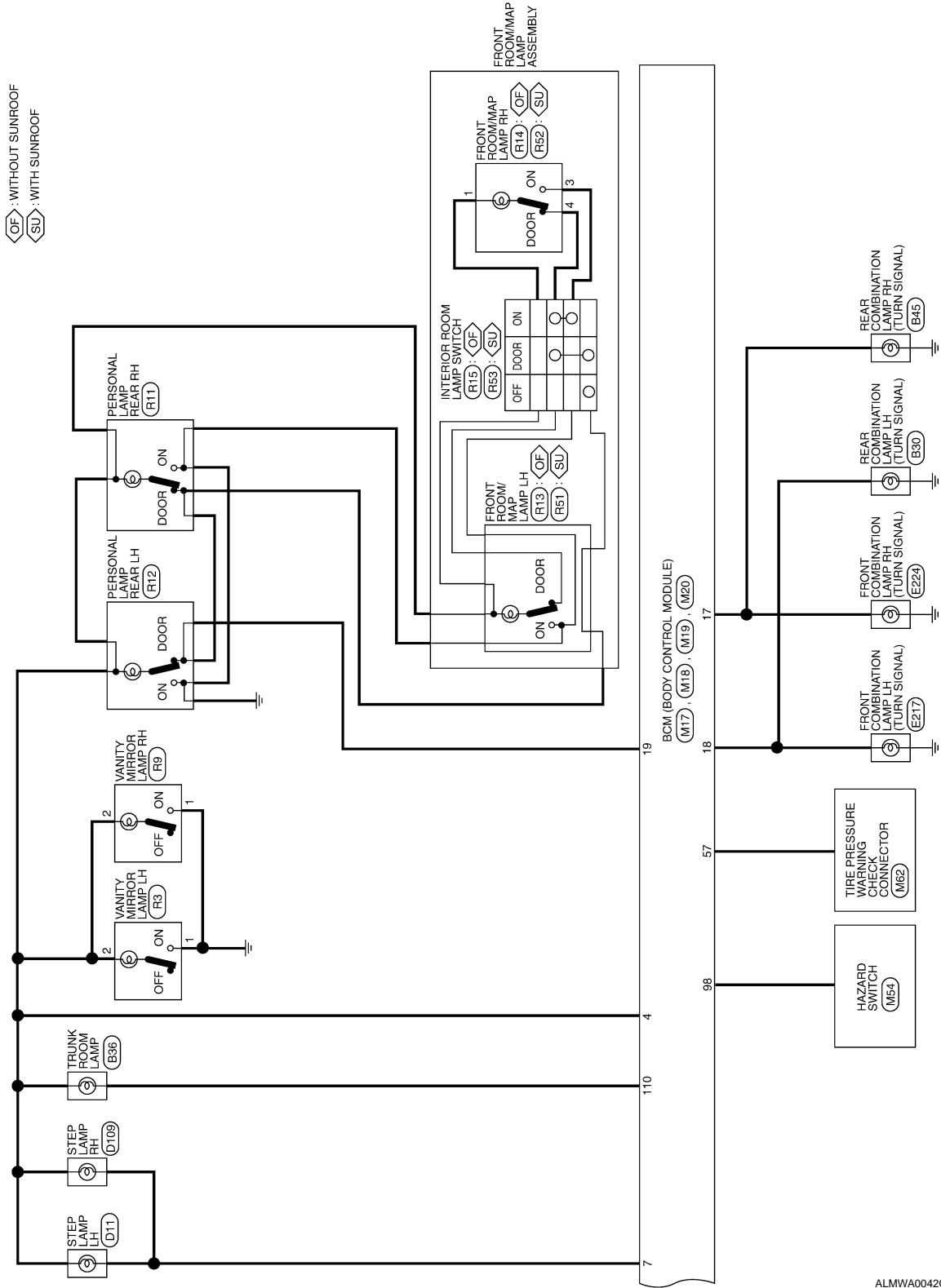
<A1> : WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM
 <A2> : WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM



ALMWA0041GE

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >



ALMWA0042GE

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BCM (BODY CONTROL MODULE)

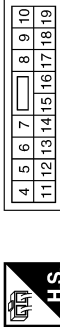
< ECU DIAGNOSIS >

| | |
|-----------------|---------------------------|
| Connector No. | M16 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------------------|
| 1 | W/B | BAT_POWER_F/L |
| 2 | R/Y | P/W_POWER_SUPPL Y_PERM |
| 3 | L/W | POWER_WINDOW_ POWER_SUPPLY (RAP) |

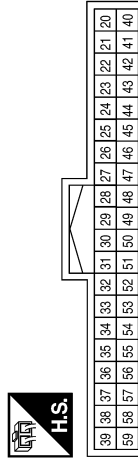
| | |
|-----------------|---------------------------|
| Connector No. | M17 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 4 | P/W | ROOM_LAMP_BAT_ SAVER |
| 5 | G/Y | CDL_AS |
| 6 | - | - |
| 7 | R/W | STEP_LAMP_OUTPUT |
| 8 | V | CDL_COMMON |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------------|
| 9 | G | CDL_DR/FL |
| 10 | G/Y | CDL_FR_RL_BACK |
| 11 | Y/R | BAT_BCM_FUSE |
| 12 | - | - |
| 13 | B | GND1 |
| 14 | R/Y | LOW_SIDE_PUSH_LE D_OUTPUT |
| 15 | Y/L | ACC_LED |
| 16 | - | - |
| 17 | G/B | FR_FLASHER |
| 18 | G/O | FL_FLASHER |
| 19 | Y | ROOM_LAMP_OUTPUT |

| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GREEN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------------|
| 20 | - | - |
| 21 | P/B | AUTO_LIGHT_SENSO R_INPUT1 |
| 22 | - | - |
| 23 | - | - |
| 24 | R/W | STOP_LAMP_LOW_SW |
| 25 | - | - |
| 26 | O/L | STOP_LAMP_HIGH_SW |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------------------------|
| 27 | G/W | DOOR_LOCK_STATUS |
| 28 | - | - |
| 29 | Y | FOB_IN_SW_1 |
| 30 | V/Y | ACC F/B |
| 31 | G | IGN F/B |
| 32 | R/B | AS_DOOR_SW |
| 33 | SB | AIRCON_SW |
| 34 | L/R | DOOR_KEY/C_ UNLOCK_SW |
| 35 | - | - |
| 36 | GR | CENTRAL_LOCK_SW |
| 37 | O | TRUNK_CANCEL_SW |
| 38 | GR/W | REAR_DEFOGGER_SW |
| 39 | GR/R | CENTRAL_UNLOCK_SW |
| 40 | Y/G | PW_K-LINE |
| 41 | W | PUSH_LED |
| 42 | R | S/L_LOCK_LED |
| 43 | - | - |
| 44 | - | - |
| 45 | P | GND_RF2_A/L |
| 46 | V/W | A/L_SENS_KEYLESS_ TUNER_POWER_SUP PLY |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------------------------|
| 47 | G/O | KEYLESS_TUNER_SI |
| 48 | R/B | SHIFT_I/N/P |
| 49 | L/O | IMMO_LED |
| 50 | LG/B | INPUT_5 |
| 51 | L/W | INPUT_1 |
| 52 | G/B | INPUT_2 |
| 53 | LG/R | INPUT_3 |
| 54 | G/Y | INPUT_4 |
| 55 | BR/W | BLOWER_FAN_SW/ DOOR_KEY/C_ LOCK_SW |
| 56 | L/B | DOOR_KEY/C_ LOCK_SW |
| 57 | W | TPMS_MODE_TRIGG ER_SW |
| 58 | SB | DR_DOOR_SW |
| 59 | G/R | REAR_DEFOGGER_ RLY |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| | |
|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 | 60 |
| 99 | 98 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 | 80 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 60 | B/R | ROOM_ANT_2_B |
| 61 | W/R | ROOM_ANT_2_A |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 82 | - | - |
| 83 | L | ACC_CONT |
| 84 | Y/R | AT_DEVICE_OUT |
| 85 | L/O | S/L_CONDITION_1 |
| 86 | G/R | S/L_CONDITION_2 |
| 87 | G/B | SHIFT_P |
| 88 | P/L | AS_REQUEST_SWITCH |
| 89 | B/W | DR_REQUEST_SWITCH |
| 90 | Y | IGN2_CONT |
| 91 | L/R | RF1_POWER_SUPPLY |
| 92 | - | - |
| 93 | - | - |
| 94 | G/Y | S/L_POWER_SUPPLY_12V |
| 95 | R/W | OUTPUT_1 |
| 96 | P/B | OUTPUT_4 |
| 97 | R/B | OUTPUT_2 |
| 98 | G/R | HAZARD_SW |
| 99 | L/Y | S/L_K-LINE |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------|
| 62 | B/Y | AS_DOOR_ANT_B |
| 63 | LG | AS_DOOR_ANT_A |
| 64 | V | DR_DOOR_ANT_B |
| 65 | P | DR_DOOR_ANT_A |
| 66 | R | ROOM_ANT_1_B |
| 67 | G | ROOM_ANT_1_A |
| 68 | G/O | FOB_READER_CLOCK |
| 69 | O | FOB_READER_DATA |
| 70 | R/B | IGN_ELEC_SIGNAL |
| 71 | L/O | RF1_TUNER_SIGNAL |
| 72 | - | - |
| 73 | - | - |
| 75 | R/Y | OUTPUT_5 |
| 76 | R/G | OUTPUT_3 |
| 77 | BR | ENG_START_SW |
| 78 | P | CAN-L |
| 79 | L | CAN-H |
| 80 | R/L | FOB_SLOT_ILLUMINATION |
| 81 | LG | IGN_ON_LED |

| | |
|-----------------|---------------------------|
| Connector No. | M20 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| 100 | 101 | 102 | 103 | 104 | | |
| 105 | 106 | 107 | 108 | 109 | 110 | 111 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 100 | - | - |
| 101 | - | - |
| 102 | - | - |
| 103 | V | CDL_BACK_TRUNK |
| 104 | - | - |
| 105 | - | - |
| 106 | - | - |
| 107 | - | - |
| 108 | - | - |
| 109 | - | - |
| 110 | V/W | TRUNK_LAMP_OUTPUT |
| 111 | - | - |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 119 | BR/W | BACK_DOOR_ANT_A |
| 120 | - | - |
| 121 | - | - |
| 122 | - | - |
| 123 | - | - |
| 124 | - | - |
| 125 | - | - |
| 126 | - | - |
| 127 | BR/W | IGN_USM_CONT1 |
| 128 | - | - |
| 129 | - | - |
| 130 | Y/G | TRUNK_SW |
| 131 | - | - |
| 132 | R | ST_CONT_USM |
| 133 | - | - |
| 134 | - | - |
| 135 | - | - |
| 136 | - | - |
| 137 | - | - |
| 138 | - | - |
| 139 | - | - |
| 140 | - | - |
| 141 | G/R | TRUNK_REQUEST_SW |
| 142 | - | - |
| 143 | - | - |
| 144 | GR | BUZZER |
| 145 | - | - |
| 146 | - | - |
| 147 | L/R | BACK_TRUNK_OPENER |
| 148 | R/W | RR_DOOR_SW |
| 149 | R/B | RL_DOOR_SW |
| 150 | - | - |
| 151 | - | - |

| | |
|-----------------|---------------------------|
| Connector No. | M21 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GRAY |



| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 131 | 132 | 128 | 127 | 126 | 125 | 124 | 123 | 122 | 121 | 120 | 119 | 118 | 117 | 116 | 115 | 114 | 113 | 112 | |
| 151 | 150 | 149 | 148 | 147 | 146 | 145 | 144 | 143 | 142 | 141 | 140 | 139 | 138 | 137 | 136 | 135 | 134 | 133 | 132 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------|
| 112 | - | - |
| 113 | - | - |
| 114 | B | TRUNK_ANT_1_B |
| 115 | W | TRUNK_ANT_1_A |
| 116 | - | - |
| 117 | - | - |
| 118 | L/O | BACK_DOOR_ANT_B |

ALMIA0085GB

INFOID:000000003303319

Fail Safe

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|--------------------------------|--------------|
| B2013: ID DISCORD BCM-S/L | Inhibit hybrid system cranking | Erase DTC |
| B2014: CHAIN OF S/L-BCM | Inhibit hybrid system cranking | Erase DTC |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Display contents of CONSULT | Fail-safe | Cancellation | |
|-----------------------------|---|--|---|
| B2190: NATS ANTENNA AMP | Inhibit hybrid system cranking | Erase DTC | A |
| B2191: DIFFERENCE OF KEY | Inhibit hybrid system cranking | Erase DTC | B |
| B2192: ID DISCORD BCM-ECM | Inhibit hybrid system cranking | Erase DTC | C |
| B2193: CHAIN OF BCM-ECM | Inhibit hybrid system cranking | Erase DTC | C |
| B2195: ANTI-SCANNING | Inhibit hybrid system cranking | Erase DTC | D |
| B2557: VEHICLE SPEED | Inhibit electronic steering column lock | When normal vehicle speed signals have been received from brake ECU actuator and electric unit (control unit) for 500 ms | |
| B2560: STARTER CONT RELAY | Inhibit hybrid system cranking | 500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal | E |
| B2562: LOW VOLTAGE | <ul style="list-style-type: none"> • Inhibit hybrid system cranking • Inhibit electronic steering column lock | 100 ms after the power supply voltage increases to more than 8.8 V | F |
| B2563: HI VOLTAGE | <ul style="list-style-type: none"> • Inhibit hybrid system cranking • Inhibit electronic steering column lock | 500 ms after the power supply voltage decreases to less than 18 V | G |
| B2601: SHIFT POSITION | Inhibit electronic steering column lock | 500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Selector lever P position switch signal • P range signal (CAN) | H |
| B2602: SHIFT POSITION | Inhibit electronic steering column lock | 5 seconds after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Vehicle speed: 4 /h or more | I |
| B2603: SHIFT POSI STATUS | Inhibit electronic steering column lock | 500 ms after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Selector lever P/N position signal: Except P and N positions (0 V) | J |
| B2604: PNP SW | Inhibit electronic steering column lock | 500 ms after any of the following BCM recognition conditions is fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) • Status 2 <ul style="list-style-type: none"> - P range signal or N range signal (CAN): ON - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF | K |
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INL

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|---|---|
| B2605: PNP SW | Inhibit electronic steering column lock | 500 ms after any of the following BCM recognition conditions is fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON |
| B2606: S/L RELAY | Inhibit hybrid system cranking | 500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal) |
| B2607: S/L RELAY | Inhibit hybrid system cranking | 500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal) |
| B2608: STARTER RELAY | Inhibit hybrid system cranking | 500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN) |
| B2609: S/L STATUS | <ul style="list-style-type: none"> • Inhibit hybrid system cranking • Inhibit electronic steering column lock | When the following electronic steering column lock conditions agree <ul style="list-style-type: none"> • BCM electronic steering column lock control status • Electronic steering column lock condition No. 1 signal status • Electronic steering column lock condition No. 2 signal status |
| B260A: IGNITION RELAY | Inhibit hybrid system cranking | 500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) |
| B260F: ENG STATE SIG LOST | Maintains the power supply position attained at the time of DTC detection | When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives hybrid system status signal (CAN) |
| B2612: S/L STATUS | <ul style="list-style-type: none"> • Inhibit hybrid system cranking • Inhibit electronic steering column lock | When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Electronic steering column lock unit status signal (CAN) is received normally • The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R) |
| B2617: STARTER RELAY CIRC | Inhibit hybrid system cranking | 1 second after the starter motor relay control inside BCM becomes normal |
| B2618: BCM | Inhibit hybrid system cranking | 1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal |
| B2619: BCM | Inhibit hybrid system cranking | 1 second after the electronic steering column lock unit power supply output control inside BCM becomes normal |
| B261E: VEHICLE TYPE | Inhibit hybrid system cranking | BCM initialization |
| B26E1: ENG STATE NO RECIV | Inhibit hybrid system cranking | When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives hybrid system status signal (CAN) |

DTC Inspection Priority Chart

INFOID:000000003303320

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Priority | DTC | A |
|----------|--|---------------------------------|
| 1 | <ul style="list-style-type: none"> • B2562: LOW VOLTAGE • B2563: HI VOLTAGE • B261E: VEHICLE TYPE | B |
| 2 | <ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN) | C |
| 3 | <ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM | D |
| 4 | <ul style="list-style-type: none"> • B2013: ID DISCORD BCM-S/L • B2014: CHAIN OF S/L-BCM • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2606: S/L RELAY • B2607: S/L RELAY • B2608: STARTER RELAY • B2609: S/L STATUS • B260A: IGNITION RELAY • B260B: STEERING LOCK UNIT • B260C: STEERING LOCK UNIT • B260D: STEERING LOCK UNIT • B260F: ENG STATE SIG LOST • B2611: ACC RELAY • B2612: S/L STATUS • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B26E1: ENG STATE NO RECIV • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG | E F G H I J K |

INL

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| Priority | DTC |
|----------|---|
| 5 | <ul style="list-style-type: none"> • 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 • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT |
| 6 | <ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA |

DTC Index

INFOID:000000003303321

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 | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|--|-----------|---------------------------------|---------------------------------------|------------------------|
| No DTC is detected. further testing may be required. | — | — | — | — |
| U1000: CAN COMM CIRCUIT | — | — | — | PCS-45 |
| U1010: CONTROL UNIT (CAN) | — | — | — | PCS-46 |
| U0415: VEHICLE SPEED SIG | — | — | — | BCS-38 |
| B2013: ID DISCORD BCM-S/L | × | — | — | SEC-35 |
| B2014: CHAIN OF S/L-BCM | × | — | — | SEC-36 |
| B2190: NATS ANTENNA AMP | × | — | — | SEC-28 |
| B2191: DIFFERENCE OF KEY | × | — | — | SEC-32 |
| B2192: ID DISCORD BCM-ECM | × | — | — | SEC-33 |
| B2193: CHAIN OF BCM-ECM | × | — | — | SEC-34 |
| B2553: IGNITION RELAY | — | — | — | PCS-47 |
| B2555: STOP LAMP | — | — | — | SEC-40 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page | |
|---------------------------|-----------|---------------------------------|---------------------------------------|------------------------|-----|
| B2556: PUSH-BTN IGN SW | — | × | — | SEC-43 | A |
| B2557: VEHICLE SPEED | × | × | — | SEC-45 | B |
| B2560: STARTER CONT RELAY | × | × | — | SEC-46 | |
| B2562: LOW VOLTAGE | — | — | — | BCS-39 | C |
| B2563: HI VOLTAGE | × | × | — | BCS-40 | |
| B2601: SHIFT POSITION | × | × | — | SEC-47 | D |
| B2602: SHIFT POSITION | × | × | — | SEC-51 | |
| B2603: SHIFT POSI STATUS | × | × | — | SEC-54 | |
| B2604: PNP SW | × | × | — | SEC-58 | E |
| B2607: S/L RELAY | × | × | — | SEC-60 | |
| B2608: STARTER RELAY | × | × | — | SEC-62 | |
| B2609: S/L STATUS | × | × | — | SEC-64 | F |
| B260A: IGNITION RELAY | × | × | — | PCS-49 | |
| B260B: STEERING LOCK UNIT | — | × | — | SEC-69 | G |
| B260C: STEERING LOCK UNIT | — | × | — | SEC-70 | |
| B260D: STEERING LOCK UNIT | — | × | — | SEC-71 | |
| B260F: ENG STATE SIG LOST | × | × | — | SEC-72 | H |
| B2611: ACC RELAY | — | — | — | PCS-50 | |
| B2612: S/L STATUS | × | × | — | SEC-73 | |
| B2614: ACC RELAY CIRC | — | × | — | PCS-52 | I |
| B2615: BLOWER RELAY CIRC | — | × | — | PCS-55 | |
| B2616: IGN RELAY CIRC | — | × | — | PCS-58 | J |
| B2617: STARTER RELAY CIRC | × | × | — | SEC-78 | |
| B2618: BCM | × | × | — | PCS-61 | |
| B2619: BCM | × | × | — | SEC-80 | K |
| B261A: PUSH-BTN IGN SW | — | × | — | SEC-81 | |
| B261E: VEHICLE TYPE | × | × (Turn ON for 15 seconds) | — | SEC-84 | INL |
| B2621: INSIDE ANTENNA | — | — | — | DLK-42 | |
| B2622: INSIDE ANTENNA | — | — | — | DLK-45 | M |
| B2623: INSIDE ANTENNA | — | — | — | DLK-48 | |
| C1704: LOW PRESSURE FL | — | — | × | WT-8 | |
| C1705: LOW PRESSURE FR | — | — | × | WT-8 | N |
| C1706: LOW PRESSURE RR | — | — | × | WT-8 | |
| C1707: LOW PRESSURE RL | — | — | × | WT-8 | |
| C1708: [NO DATA] FL | — | — | × | WT-13 | O |
| C1709: [NO DATA] FR | — | — | × | WT-13 | |
| C1710: [NO DATA] RR | — | — | × | WT-13 | P |
| C1711: [NO DATA] RL | — | — | × | WT-13 | |
| C1712: [CHECKSUM ERR] FL | — | — | × | WT-14 | |
| C1713: [CHECKSUM ERR] FR | — | — | × | WT-14 | |
| C1714: [CHECKSUM ERR] RR | — | — | × | WT-14 | |
| C1715: [CHECKSUM ERR] RL | — | — | × | WT-14 | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|---------------------------|-----------|------------------------------------|---|-----------------------|
| C1716: [PRESSDATA ERR] FL | — | — | × | WT-15 |
| C1717: [PRESSDATA ERR] FR | — | — | × | WT-15 |
| C1718: [PRESSDATA ERR] RR | — | — | × | WT-15 |
| C1719: [PRESSDATA ERR] RL | — | — | × | WT-15 |
| C1720: [CODE ERR] FL | — | — | × | WT-14 |
| C1721: [CODE ERR] FR | — | — | × | WT-14 |
| C1722: [CODE ERR] RR | — | — | × | WT-14 |
| C1723: [CODE ERR] RL | — | — | × | WT-14 |
| C1724: [BATT VOLT LOW] FL | — | — | × | WT-14 |
| C1725: [BATT VOLT LOW] FR | — | — | × | WT-14 |
| C1726: [BATT VOLT LOW] RR | — | — | × | WT-14 |
| C1727: [BATT VOLT LOW] RL | — | — | × | WT-14 |
| C1729: VHCL SPEED SIG ERR | — | — | × | WT-16 |

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000003071748

CAUTION:

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

| Symptom | Possible cause | Inspection item |
|---|--|---|
| All the following lamps do not turn ON. • Front room/map lamp LH and RH • Personal lamp rear LH and RH • Trunk room lamp • Step lamp LH and RH • Vanity mirror lamp LH and RH | <ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM | Interior room lamp power supply circuit Refer to INL-15 . |
| <ul style="list-style-type: none"> • Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed. | <ul style="list-style-type: none"> • Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM | Door switch circuit Refer to DLK-52 . Interior room lamp control circuit Refer to INL-17 . |
| Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.) | — | Check the interior room lamp setting. Refer to BCS-19 . |
| Step lamps do not turn ON. (The front room/map lamps and the personal lamps turn ON.) Step lamps (driver side and passenger side) do not turn OFF. (The room/map lamps and the personal lamps turn OFF.) | <ul style="list-style-type: none"> • Harness between BCM and each step lamp • BCM | Step lamp circuit Refer to INL-19 . |
| <ul style="list-style-type: none"> • Trunk room lamp does not turn ON. (The bulb is normal.) • Trunk room lamp does not turn OFF. | <ul style="list-style-type: none"> • Harness between BCM and trunk room lamp switch • Harness between BCM and trunk room lamp • BCM | Trunk room lamp switch circuit Refer to INL-21 . Trunk room lamp circuit Refer to INL-21 . |
| Interior room lamp battery saver does not activate. | — | Check the interior room lamp battery saver setting. Refer to BCS-29 . |

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003071749

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 SR and SB section of this Service Manual.

WARNING:

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

General precautions for service operations

INFOID:000000003071750

- When removing or disassembling any part, be careful not to damage or deform it. Protect parts which may get in the way with cloth.
- When removing parts with a screw driver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- If a non-reuseable part is removed, replace it with a new one.
- After re-assembly has been completed, make sure each part functions correctly.
- Never work with wet hands.
- Turn the lighting switch OFF before disconnecting and connecting the connector.
- Do not use organic solvent (paint thinner or gasoline) to clean lamps or remove sealant residue.

INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

INTERIOR ROOM LAMP

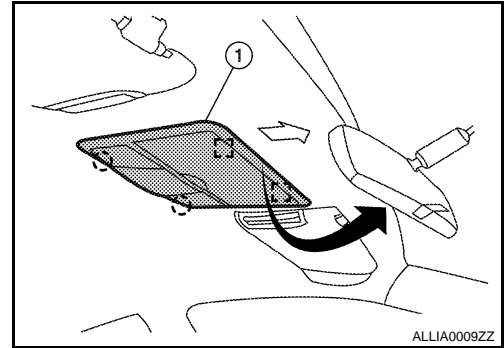
Removal and Installation

INFOID:000000003071751

FRONT ROOM/MAP LAMP

Removal

1. Disconnect the negative battery cable.
2. Release the metal clips and drop front edge of front room/map lamp (1) away from headlining. Slide front room/map lamp forward in vehicle to clear pawls at rear.
3. Disconnect the connectors, then remove front room/map lamp.



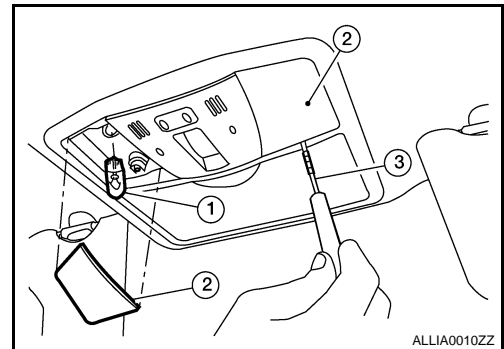
Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Disconnect the negative battery cable.
2. Using a suitable tool (3), remove front room/map lamp lens (2) RH/LH.
3. Pull bulb (1) straight out to remove.

**Front room/
map lamp bulb : 12V - 8W**



VANITY MIRROR LAMP

Removal

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to [INT-18. "Exploded View"](#).

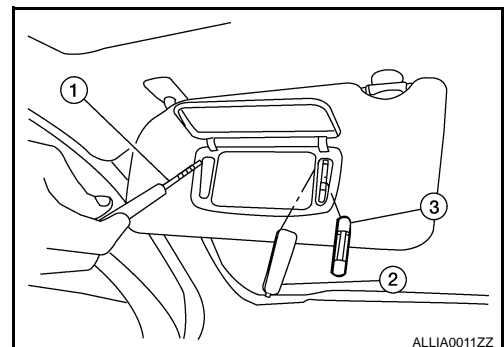
Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Disconnect the negative battery cable.
2. Using a suitable tool (1), remove the vanity mirror lamp lens (2) RH/LH.
3. Pull bulb (3) straight out to remove.

Vanity mirror lamp bulb : 12V - 2W



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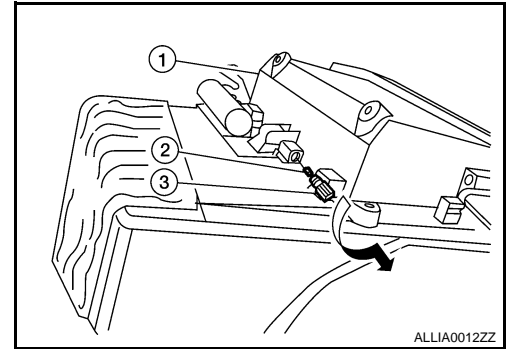
INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

GLOVE BOX LAMP

Removal

1. Disconnect the negative battery cable.
2. Remove the lower instrument glove box assembly (1). Refer to [IP-10, "Exploded View"](#).
3. Rotate glove box lamp socket (3) counterclockwise to remove.



Installation

Installation is in the reverse order of removal.

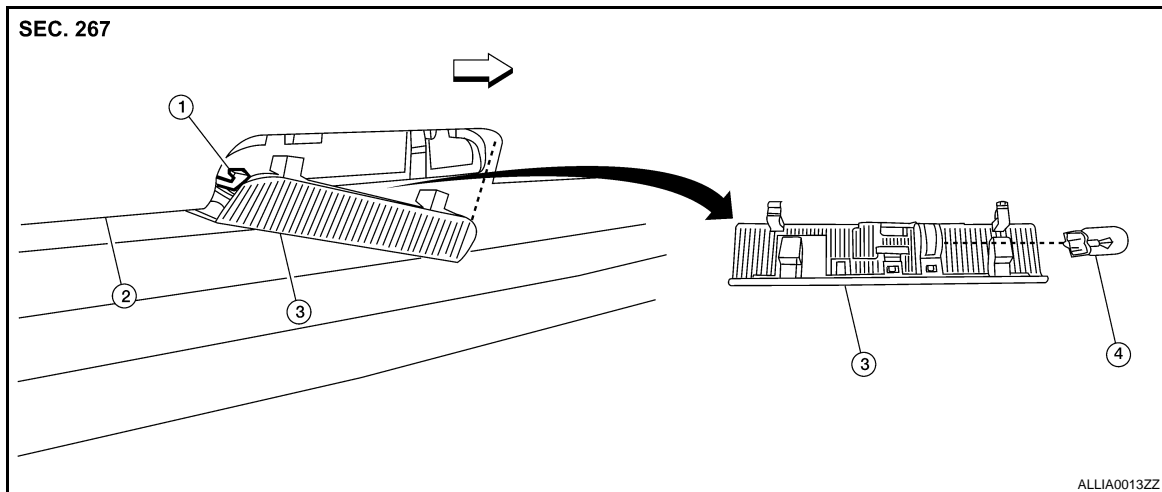
Bulb Replacement

1. Disconnect the negative battery cable.
2. Remove glove box lamp socket (3).
3. Pull bulb (2) straight out to remove.

Glove box lamp bulb : 12V - 3.4W

STEP LAMP

Removal



- | | | |
|------------------------|------------------|--------------------------|
| 1. Step lamp connector | 2. Door finisher | 3. Step lamp lens/socket |
| 4. Step lamp bulb | ↳ Vehicle front | |

1. Disconnect the negative battery cable.
2. Insert a suitable tool between door finisher (2) and step lamp lens/socket (1) to release the pawls.
3. Disconnect the step lamp connector, then remove step lamp.

Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Disconnect the negative battery cable.
2. Remove the step lamp lens/socket.

INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

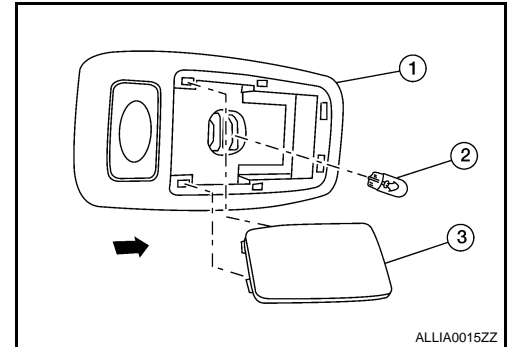
3. Pull the bulb straight out to remove.

Step lamp bulb : 12V - 5W

PERSONAL LAMP

Removal

The personal lamp (RH/LH) (1) is replaced as part of the headlining assembly. Refer to [INT-18, "Removal and Installation"](#).



Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Disconnect the negative battery cable.
2. Using a suitable tool, release the pawls and remove personal lamp lens (3)
3. Pull bulb (2) straight out to remove.

Personal lamp bulb : 12V - 8W

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ILLUMINATION

< ON-VEHICLE REPAIR >

ILLUMINATION

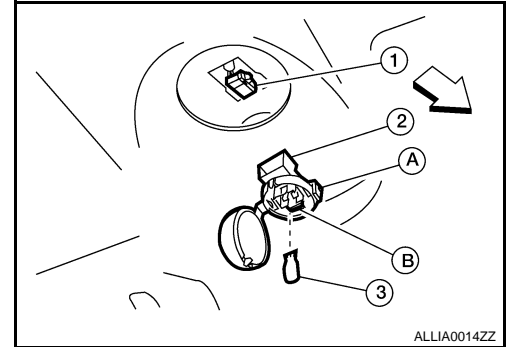
Removal and Installation

INFOID:000000003071752

TRUNK ROOM LAMP

Removal

1. Disconnect the negative battery cable.
2. Release the tab (A), then swing open the lens.
3. Remove the bulb (3).
4. Release the tab (B), then pull trunk room lamp (2) away from body opening.
5. Disconnect the connector (1) and remove trunk room lamp.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Disconnect the negative battery cable.
2. Release the tab (A), then swing open the lens.
3. Pull bulb (3) straight out to remove.

Trunk room lamp bulb

: 12V - 3.4W

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000003071753

| Item | Type | Wattage (W) | Bulb No.* |
|--|----------|-------------|-----------|
| Front room/map lamp | Wedge | 8 | B5Y |
| Push-button ignition switch illumination | LED | - | - |
| Vanity mirror lamp | Cylinder | 2 | - |
| Glove box lamp | Wedge | 3.4 | 658 |
| Step lamp | Wedge | 5 | - |
| Personal lamp | Wedge | 8 | B5Y |
| Trunk room lamp | Wedge | 3.4 | 158 |

* Always check with the Parts Department for the latest parts information.

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