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SECTION INL

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

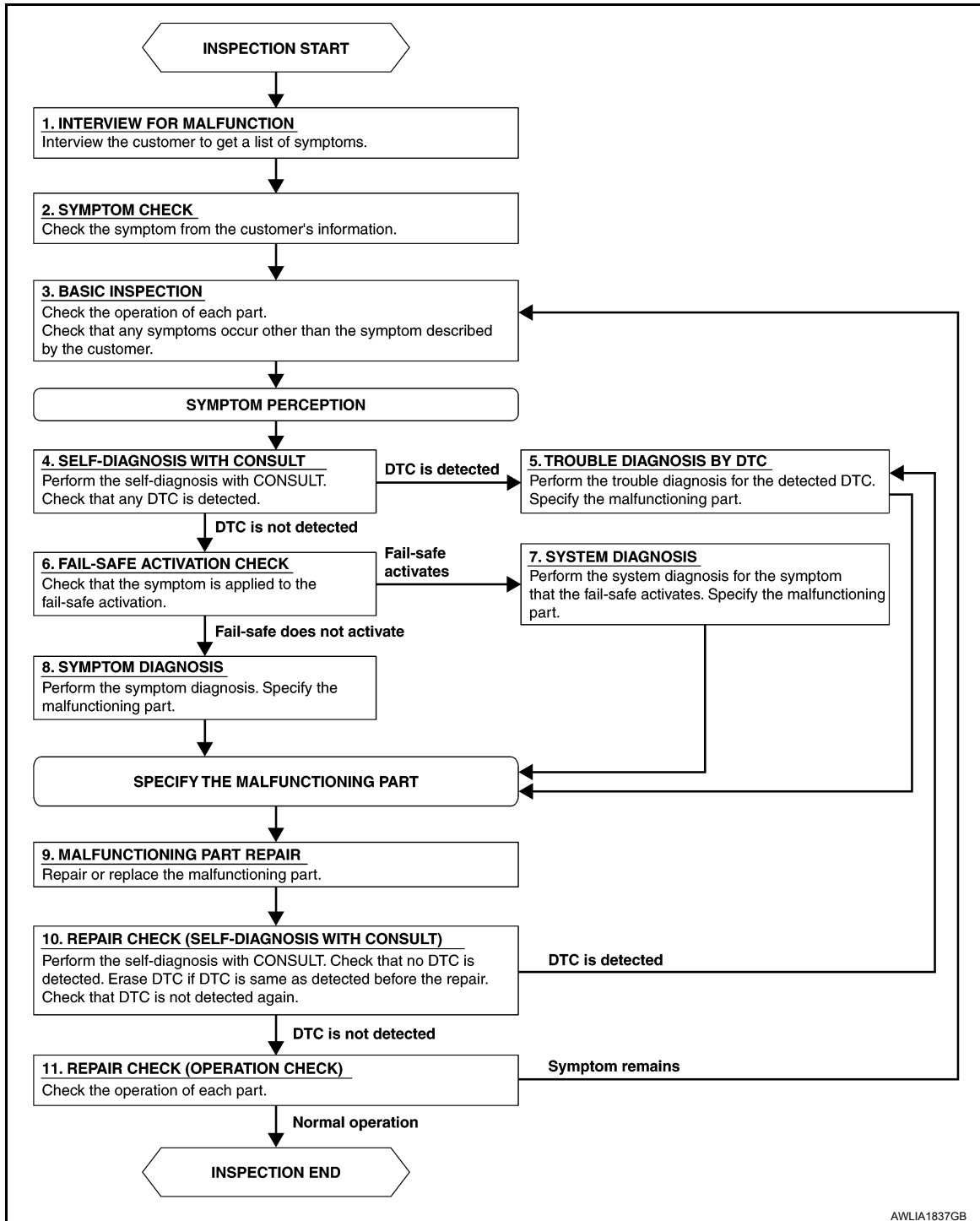
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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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

Perform the self-diagnosis with CONSULT. 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. Refer to [INL-68, "Symptom Table"](#). Specify the malfunctioning part.

>> GO TO 9

9. MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10

10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)

Perform the self-diagnosis with CONSULT. 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?

YES >> GO TO 5

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

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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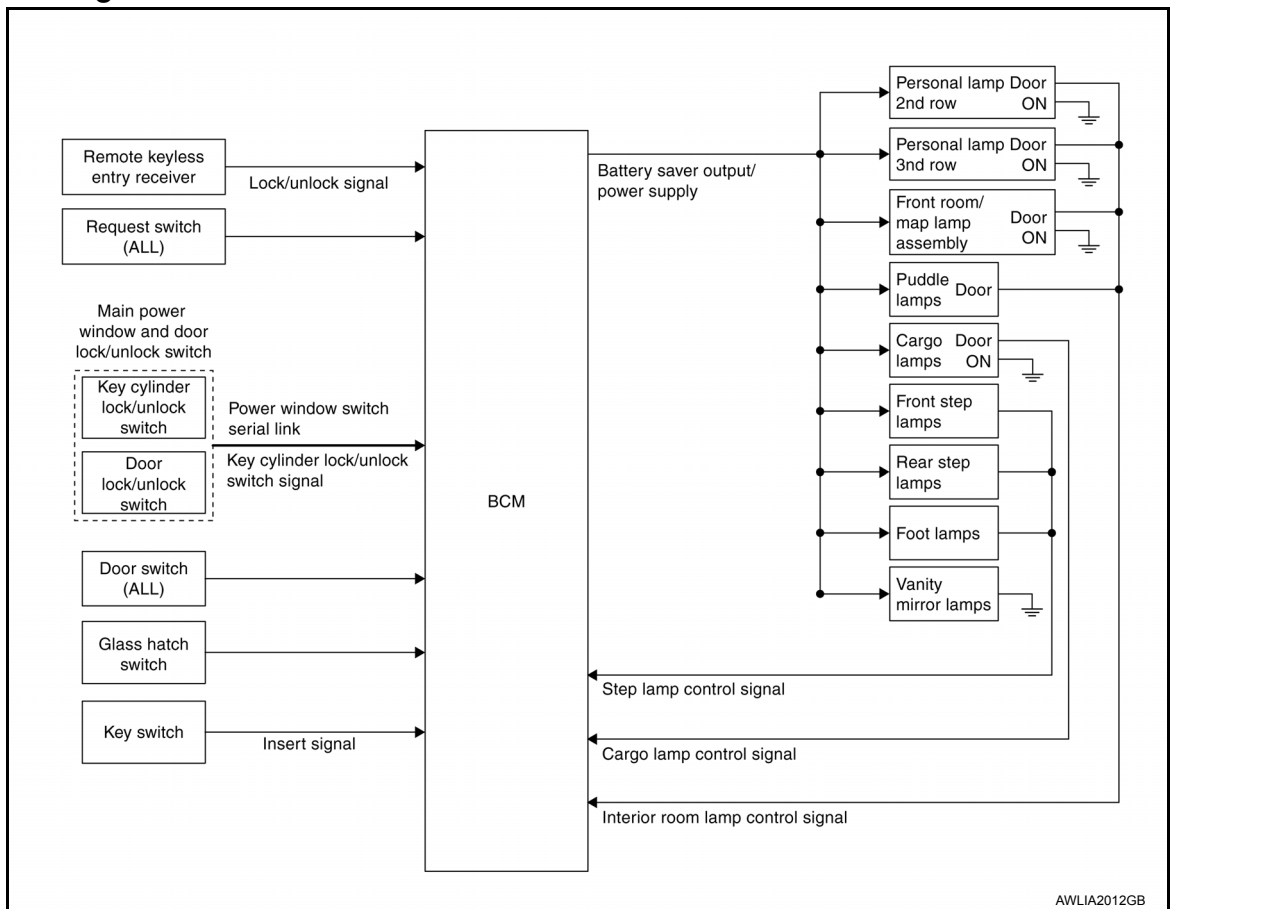
INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

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OUTLINE

- Interior room lamps* are controlled by the interior room lamp timer control function of the BCM.
 - *Front room/map lamps, personal lamp 2nd row, personal lamp 3rd row (when lamp switch is in DOOR position) and puddle lamps (if equipped).
- Cargo lamp is controlled by the cargo lamp control function of the BCM.
- Step lamps* are controlled by the step lamp control function of the BCM.
 - *Front step lamps, rear step lamps and foot lamps (if equipped).

The timer control functions of the BCM activate based on inputs from the remote keyless entry receiver, the key cylinder lock/unlock switch, the door switches, the key switch and lock solenoid (without Intelligent Key) or the key switch and ignition knob switch (with Intelligent Key).

ROOM LAMP TIMER OPERATION

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

- When the front door LH is unlocked [with Intelligent Key (with Intelligent Key), key fob (without Intelligent Key), main power window and door lock/unlock switch, or front door lock assembly LH (key cylinder switch)].
- When a door opens → closes and the key is not inserted in the ignition switch.

Timer control is cancelled under the following conditions.

- When the front door LH is locked [with Intelligent Key (with Intelligent Key), key fob (without Intelligent Key), main power window and door lock/unlock switch, or front door lock assembly LH (key cylinder switch)].
- A door is opened (door switch turns ON).
- Ignition switch is turned ON.

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

INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

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 10 minutes after the ignition switch is turned OFF.

The BCM controls power and ground to all interior lamps.

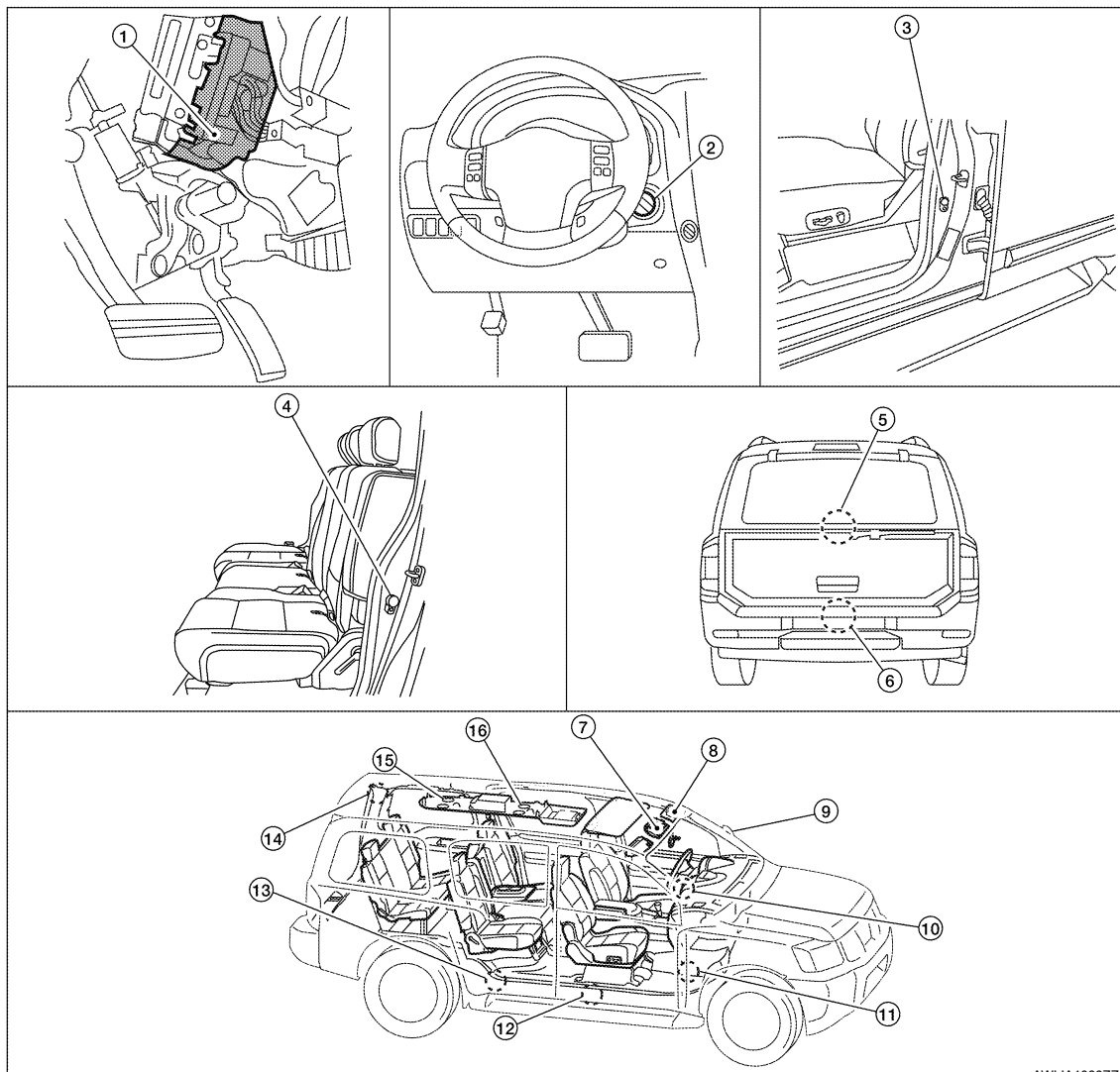
After the battery saver system turns the lamps OFF, the lamps will illuminate again when

- a signal is received from an Intelligent Key (with Intelligent Key), key fob (without Intelligent Key), or main power window and door lock/unlock switch, or when the front door lock assembly LH (key cylinder switch) is locked or unlocked
- a door is opened or closed
- the key is removed from or inserted into the ignition switch.

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

Component Parts Location

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- | | | |
|--|---|--|
| 1. BCM M18, M19, M20 (view with instrument lower panel LH removed) | 2. Key switch and ignition knob switch M12 (with Intelligent Key) Key switch and key lock solenoid M27 (without Intelligent Key) | 3. Front door switch LH B8 Front door switch RH B108 |
| 4. Rear door switch LH B18 Rear door switch RH B116 | 5. Glass hatch ajar switch D707 | 6. Back door switch D502 (without power back door) Back door latch (door ajar switch) D503 (with power back door) |

INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front room/map lamp assembly R102 | 8. Vanity lamp LH R3 Vanity lamp RH R8 | 9. Door mirror LH (puddle lamp) D4 (if equipped) Door mirror RH (puddle lamp) D107 (if equipped) |
| 10. Ignition keyhole illumination M150 | 11. Foot lamp LH M99 (if equipped) Foot lamp RH M100 (if equipped) | 12. Front step lamp LH D11 Front step lamp RH D109 |
| 13. Rear step lamp LH D206 Rear step lamp RH D306 | 14. Cargo lamp B153 | 15. Personal lamp 3rd row R205 |
| 16. Personal lamp 2nd row R203 | | |

Component Description

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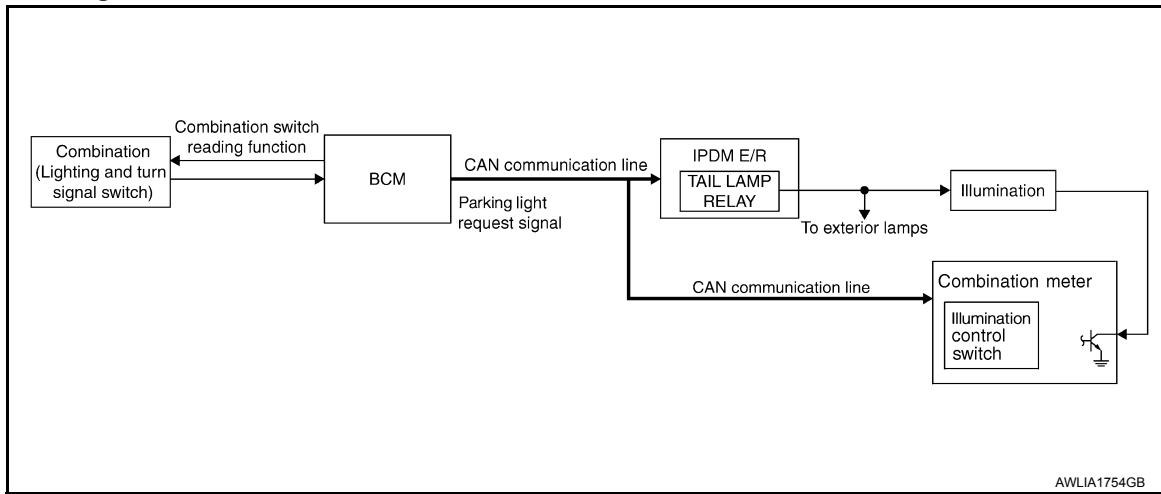
| Part name | Description |
|---|--|
| BCM | Provides power and ground and controls timer functions for the interior room lamps, step lamps and cargo lamp. |
| Key switch and ignition knob switch (with Intelligent Key) | Provides key in ignition status to the BCM. |
| Key switch and key lock solenoid (without Intelligent Key) | |
| Door switches | Provides door OPEN/CLOSED status to the BCM. |
| Glass hatch switch | Provides glass hatch OPEN/CLOSED status to the BCM. |
| Back door latch (with power back door) | Provides back door OPEN/CLOSED status to the BCM. |
| Back door switch (without power back door) | |
| Power window and door lock/unlock switch RH | Provides door lock/unlock position switch RH status to the BCM. |
| Main power window and door lock/unlock switch [front door lock assembly LH (key cylinder switch)] | Provides door lock/unlock position switch LH status to the BCM. |

ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

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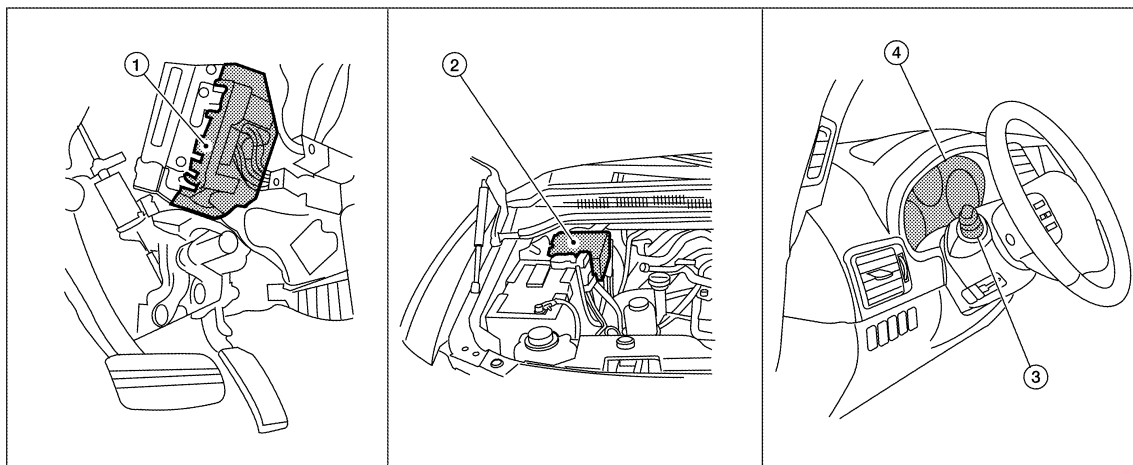
The illumination lamps operation is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives input requesting the parking lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) via 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 parking and illumination lamps, which then illuminate.

BATTERY SAVER CONTROL

When the combination switch (lighting and turn signal 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 10 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the illumination lamps are turned off after a 30 seconds delay. When the combination switch (lighting and turn signal 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.

Component Parts Location

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ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

1. BCM M18, M20 (view with instrument lower panel LH removed)
2. IPDM E/R E122, E123, E124
3. Combination switch (lighting and turn signal switch) M28
4. Combination meter (illumination control switch) M23, M24

Component Description

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| Part name | Description |
|--|--|
| BCM | The BCM monitors the lighting switch position with the combination switch reading function. The BCM requests, via CAN communication, that the IPDM E/R activate the tail lamp relay. |
| IPDM E/R | The IPDM E/R activates the tail lamp relay based on inputs received from the BCM via the CAN communication network. |
| Combination meter (illumination control switch) | The illumination control switch is a part of the combination meter. The combination meter controls illumination intensity by varying ground to the illumination lamps based on the illumination control switch position. |
| Combination switch (lighting and turn signal switch) | The combination switch provides input to the BCM about the lighting switch position. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:00000000982374

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Direct Diagnostic Mode | Description |
|------------------------|--|
| ECU Identification | The BCM part number is displayed. |
| Self Diagnostic Result | The BCM self diagnostic results are displayed. |
| Data Monitor | The BCM input/output data is displayed in real time. |
| Active Test | The BCM activates outputs to test components. |
| Work support | The settings for BCM functions can be changed. |
| Configuration | <ul style="list-style-type: none"> The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM. |
| CAN Diag Support Mntr | The result of transmit/receive diagnosis of CAN communication is displayed. |

SYSTEM APPLICATION

BCM can perform the following functions.

| System | Sub System | Direct Diagnostic Mode | | | | | | |
|--------------------------------------|----------------------|------------------------|------------------------|--------------|-------------|--------------|---------------|-----------------------|
| | | ECU Identification | Self Diagnostic Result | Data Monitor | Active Test | Work support | Configuration | CAN Diag Support Mntr |
| Door lock | DOOR LOCK | | x | x | x | x | | |
| Rear window defogger | REAR DEFOGGER | | | x | x | | | |
| Warning chime | BUZZER | | | x | x | | | |
| Interior room lamp timer | INT LAMP | | | x | x | x | | |
| Remote keyless entry system | MULTI REMOTE ENT | | | x | x | x | | |
| Exterior lamp | HEADLAMP | | | x | x | x | | |
| Wiper and washer | WIPER | | | x | x | x | | |
| Turn signal and hazard warning lamps | FLASHER | | | x | x | | | |
| Air conditioner | AIR CONDITIONER | | | x | | | | |
| Intelligent Key system | INTELLIGENT KEY | | | x | | | | |
| Combination switch | COMB SW | | | x | | | | |
| BCM | BCM | x | x | | | x | x | x |
| Immobilizer | IMMU | | x | x | x | | | |
| Interior room lamp battery saver | BATTERY SAVER | | | x | x | x | | |
| Back door open | TRUNK | | | x | x | | | |
| Vehicle security system | THEFT ALM | | | x | x | x | | |
| RAP system | RETAINED PWR | | | x | x | x | | |
| Signal buffer system | SIGNAL BUFFER | | | x | x | | | |
| TPMS | AIR PRESSURE MONITOR | | x | x | x | x | | |
| Panic alarm system | PANIC ALARM | | | | x | | | |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000009822375

DATA MONITOR

| Monitor Item [Unit] | Description |
|---------------------------|--|
| IGN ON SW [On/Off] | Indicates condition of ignition switch ON position. |
| KEY ON SW [On/Off] | Indicates condition of key switch. |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| BACK DOOR SW [On/Off] | Indicates condition of back door switch. |
| KEY CYL LK-SW [On/Off] | Indicates condition of lock signal from door key cylinder switch. |
| KEY CYL UN-SW [On/Off] | Indicates condition of unlock signal from door key cylinder switch. |
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |
| CDL UNLOCK SW [On/Off] | Indicates condition of unlock signal from door lock and unlock switch. |
| I-KEY LOCK* [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| I-KEY UNLOCK* [On/Off] | Indicates condition of unlock signal from Intelligent Key. |
| KEYLESS LOCK** [On/Off] | Indicates condition of lock signal from keyfob. |
| KEYLESS UNLOCK** [On/Off] | Indicates condition of unlock signal from keyfob. |

* : with Intelligent Key

** : without Intelligent Key

ACTIVE TEST

| Test Item | Description |
|-------------------|--|
| IGN ILLUM | This test is able to check ignition keyhole illumination operation [On/Off]. |
| INT LAMP | This test is able to check interior room lamp operation [On/Off]. |
| STEP LAMP TEST | This test is able to check step lamp operation [On/Off]. |
| LUGGAGE LAMP TEST | This test is able to check cargo lamp operation [On/Off]. |

WORK SUPPORT

| Support Item | Setting | Description |
|------------------------|---------|--|
| SET I/L D-UNLCK INTCON | Off | Interior room lamp timer function OFF. |
| | On* | Interior room lamp timer function ON. |
| ROOM LAMP ON TIME SET | MODE7 | 0 sec. |
| | MODE6 | 5 sec. |
| | MODE5 | 4 sec. |
| | MODE4 | 3 sec. |
| | MODE3 | 2 sec. |
| | MODE2* | 1 sec. |
| | MODE1 | 0.5 sec. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| Support Item | Setting | | Description |
|------------------------|---------|----------|---|
| ROOM LAMP OFF TIME SET | MODE7 | 0 sec. | Sets the interior room lamp gradual dimming time. |
| | MODE6 | 5 sec. | |
| | MODE5 | 4 sec. | |
| | MODE4 | 3 sec. | |
| | MODE3 | 2 sec. | |
| | MODE2* | 1 sec. | |
| | MODE1 | 0.5 sec. | |

* : Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000009822376

DATA MONITOR

| Monitor Item [Unit] | Description |
|---------------------------|--|
| IGN ON SW [On/Off] | Indicates condition of ignition switch ON position. |
| KEY ON SW [On/Off] | Indicates condition of key switch. |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| BACK DOOR SW [On/Off] | Indicates condition of back door switch. |
| KEY CYL LK SW [On/Off] | Indicates condition of lock signal from door key cylinder switch. |
| KEY CYL UN SW [On/Off] | Indicates condition of unlock signal from door key cylinder switch. |
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |
| CDL UNLOCK SW [On/Off] | Indicates condition of unlock signal from door lock and unlock switch. |
| I-KEY LOCK* [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| I-KEY UNLOCK* [On/Off] | Indicates condition of unlock signal from Intelligent Key. |
| KEYLESS LOCK** [On/Off] | Indicates condition of lock signal from keyfob. |
| KEYLESS UNLOCK** [On/Off] | Indicates condition of unlock signal from keyfob. |

* : with Intelligent Key

** : without Intelligent Key

ACTIVE TEST

| Test item | Description |
|---------------|--|
| BATTERY SAVER | This test is able to check battery saver operation [On/Off]. |

WORK SUPPORT

| Support Item | Setting | | Description |
|---------------------|---------|--------|---|
| ROOM LAMP TIMER SET | MODE2 | 60 min | Sets the interior room lamp battery saver timer operating time. |
| | MODE1* | 10 min | |

*: Initial setting

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000009822377

Regarding Wiring Diagram information, refer to [BCS-46, "Wiring Diagram"](#).

1. CHECK FUSES AND FUSIBLE LINK

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

| Terminal No. | Signal name | Fuses and fusible link No. |
|--------------|----------------------|----------------------------|
| 57 | Battery power supply | 22 (15A) |
| 70 | | F (50A) |
| 11 | Ignition ACC or ON | 4 (10A) |
| 38 | Ignition ON or START | 59 (10A) |

Is the fuse blown?

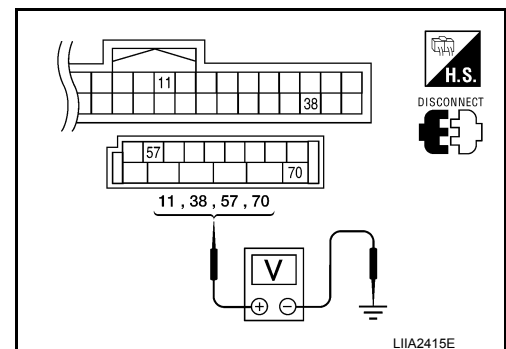
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

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.

| Connector | Terminals | | Power source | Condition | Voltage (V) (Approx.) |
|-----------|-----------|--------|-----------------------|-----------------------------|-----------------------|
| | (+) | (-) | | | |
| M18 | 11 | Ground | ACC power supply | Ignition switch ACC or ON | Battery voltage |
| | 38 | Ground | Ignition power supply | Ignition switch ON or START | Battery voltage |
| M20 | 57 | Ground | Battery power supply | Ignition switch OFF | Battery voltage |
| | 70 | Ground | Battery power supply | Ignition switch OFF | Battery voltage |



Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

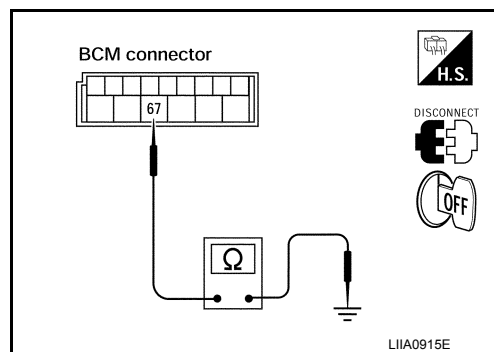
< DTC/CIRCUIT DIAGNOSIS >

Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M20 | 67 | | Yes |

Does continuity exist?

- YES >> Inspection End.
- NO >> Repair or replace harness.



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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description

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

Component Function Check

INFOID:000000009822379

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

Ⓟ WITH CONSULT

1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
 - Front room/map lamp assembly
 - Vanity lamps
 - Personal lamp 2nd row
 - Personal lamp 3rd row
 - Cargo lamp
3. Open the driver door to turn ON the step lamps and puddle lamps.
 - Front step lamps
 - Rear step lamps
 - Foot lamps (if equipped)
 - Puddle lamps (if equipped)
4. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
5. While operating the test item, 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 >> Battery saver output/power supply circuit is normal.
NO >> Refer to [INL-16, "Diagnosis Procedure"](#).

Diagnosis Procedure

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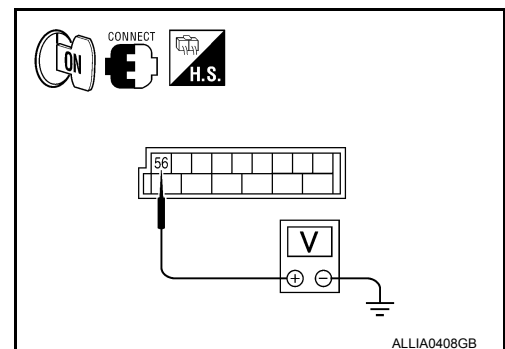
Regarding Wiring Diagram information, refer to [INL-39, "Wiring Diagram"](#).

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

Ⓟ WITH CONSULT

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 connector M20 terminal 56 and ground.

| (+) | | (-) | Test item | Voltage |
|-----------|----------|--------|---------------|-----------------|
| Connector | Terminal | | BATTERY SAVER | |
| M20 | 56 | Ground | OFF | 0V |
| | | | ON | Battery voltage |



Is the inspection result normal?

- YES >> GO TO 2
NO >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to voltage. Refer to [BCS-54, "Removal and Installation"](#).

2. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - BCM M20
 - Ignition keyhole illumination
 - Front step lamp LH
 - Front step lamp RH
 - Door mirror LH (with puddle lamps) (if equipped)
 - Door mirror RH (with puddle lamps) (if equipped)
 - Rear step lamp LH
 - Rear step lamp RH
 - Foot lamp LH (if equipped)
 - Foot lamp RH (if equipped)
 - Front room/map lamp assembly
 - Vanity lamp LH
 - Vanity lamp RH
 - Cargo lamp
 - Personal lamp 2nd row
 - Personal lamp 3rd row
3. Check continuity between BCM connector M20 terminal 56 and each interior room lamp connector.

| BCM | | Each interior room lamp | | Continuity | |
|-----------|----------|--|----------|------------|-----|
| Connector | Terminal | Connector | Terminal | | |
| M20 | 56 | Ignition keyhole illumination | M150 | 1 | Yes |
| | | Front step lamp LH | D11 | 1 | |
| | | Front step lamp RH | D109 | 1 | |
| | | Door mirror LH (with puddle lamps) (if equipped) | D4 | 12 | |
| | | Door mirror RH (with puddle lamps) (if equipped) | D107 | 12 | |
| | | Rear step lamp LH | D206 | 1 | |
| | | Rear step lamp RH | D306 | 1 | |
| | | Foot lamp LH (if equipped) | M99 | 1 | |
| | | Foot lamp RH (if equipped) | M100 | 1 | |
| | | Front room/map lamp assembly | R102 | 6 | |
| | | Vanity lamp LH | R3 | 1 | |
| | | Vanity lamp RH | R8 | 1 | |
| | | Cargo lamp | B153 | 2 | |
| | | Personal lamp 2nd row | R203 | 3 | |
| | | Personal lamp 3rd row | R205 | 3 | |

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

3. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

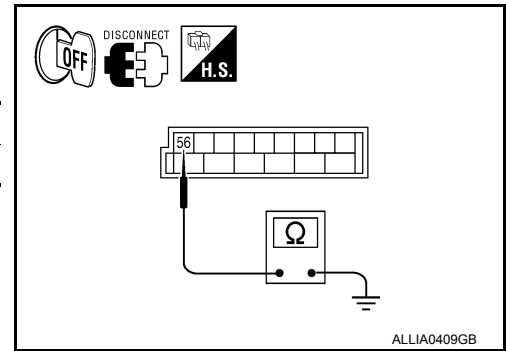
< DTC/CIRCUIT DIAGNOSIS >

Check continuity between BCM connector M20 terminal 56 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M20 | 56 | Ground | No |

Is the inspection result normal?

- YES >> Check that each interior room lamp has no internal short circuit.
- NO >> Repair the harness or connectors.



INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000009822381

Controls the following interior room lamps (ground side) by PWM signal

- Puddle lamps (if equipped)
- Front room/map lamp assembly
- Personal lamp 2nd row
- Personal lamp 3rd row

NOTE:

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

Component Function Check

INFOID:000000009822382

CAUTION:

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

- Battery saver output/power supply
- Front room/map lamp bulbs
- Personal lamp bulbs
- Puddle lamp bulbs (if equipped)

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

Ⓜ WITH CONSULT

1. Place the front room/map lamp assembly switch in the DOOR position.
2. Turn ignition switch ON.
3. Select "INT LAMP" of BCM (INT LAMP) active test item.
4. While operating the test item, 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-19. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009822383

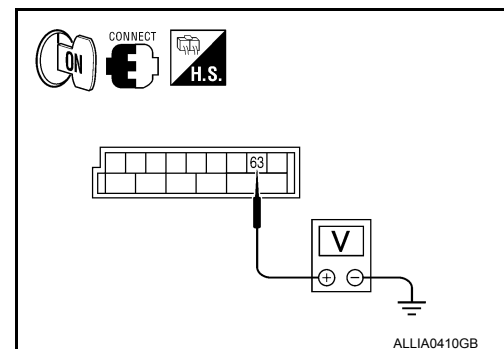
Regarding Wiring Diagram information, refer to [INL-39. "Wiring Diagram"](#).

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

Ⓜ WITH CONSULT

1. Switch the front room/map lamp assembly switch to DOOR.
2. Turn ignition switch ON.
3. Select "INT LAMP" of BCM (INT LAMP) active test item.
4. While operating the test item, check voltage between BCM connector M20 terminal 63 and ground.

| (+) | | (-) | INT LAMP | Voltage |
|-----------|----------|--------|----------|-----------------|
| Connector | Terminal | | | |
| M20 | 63 | Ground | ON | 0V |
| | | | OFF | Battery voltage |



Is the inspection result normal?

YES >> Interior room lamp control circuit is operating normally.

Fixed ON >> GO TO 3

Fixed OFF >> GO TO 2

INTERIOR ROOM LAMP CONTROL CIRCUIT

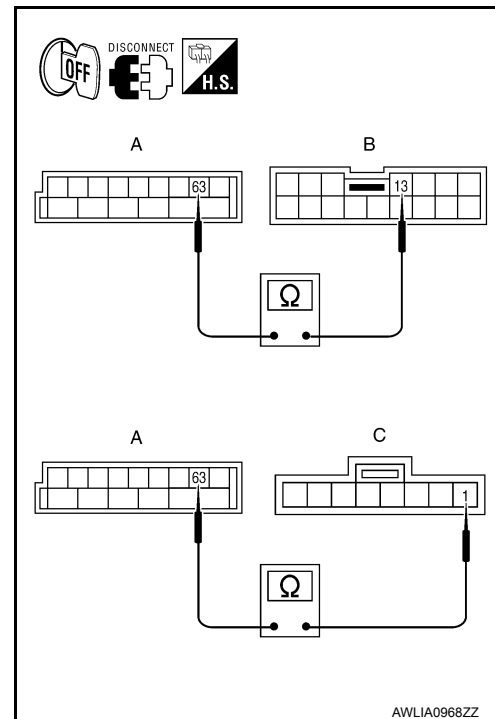
< DTC/CIRCUIT DIAGNOSIS >

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, door mirror connectors (if equipped with puddle lamps) and front room/map lamp assembly connector.
3. Check continuity between BCM connector M20 (A) terminal 63 and the door mirror connectors (B) terminal 13 and front room/map lamp assembly connector R102 (C) terminal 1.

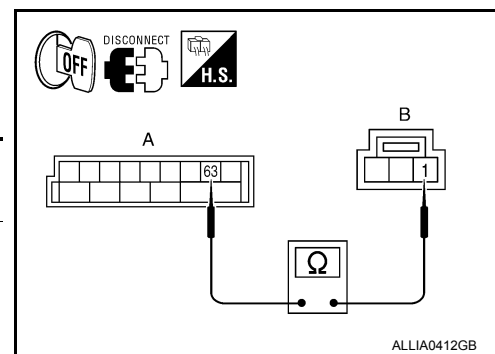
| BCM | | Interior room lamp | | | Continuity |
|-----------|----------|--|-----------|----------|------------|
| Connector | Terminal | Component | Connector | Terminal | |
| M20 (A) | 63 | Door mirror LH (if equipped with puddle lamps) | D4 (B) | 13 | Yes |
| | | Door mirror RH (if equipped with puddle lamps) | D107 (B) | 13 | |
| | | Front room/map lamp | R102 (C) | 1 | |

4. Reconnect the front room/map lamp assembly connector.



5. Check continuity between BCM connector M20 (A) terminal 63 and the 2nd and 3rd row personal lamp connectors (B) terminal 1.

| BCM | | Interior room lamp | | | Continuity |
|-----------|----------|-----------------------|-----------|----------|------------|
| Connector | Terminal | Component | Connector | Terminal | |
| M20 (A) | 63 | Personal lamp 2nd row | R203 (B) | 1 | Yes |
| | | Personal lamp 3rd row | R205 (B) | 1 | |



Is the inspection result normal?

YES >> Check interior room lamps for an open. If OK, replace BCM. Refer to [BCS-54, "Removal and Installation"](#). If NG, replace interior room lamp. Refer to [INL-72, "Removal and Installation"](#) or [EXL-141, "Removal and Installation"](#).

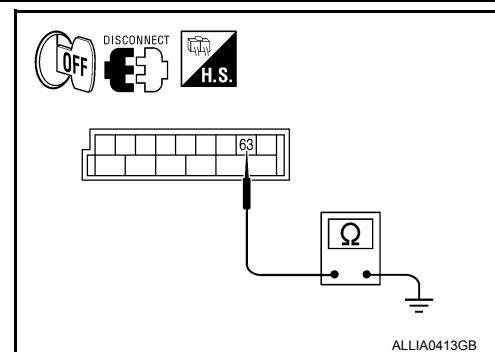
NO >> Repair the harness or connectors.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, door mirror connectors (if equipped with puddle lamps) and 2nd and 3rd row personal lamp connectors.
3. Switch the front room/map lamp assembly switch to ON position.
4. Check continuity between BCM connector M20 terminal 63 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M20 | 63 | Ground | No |

Is the inspection result normal?



INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Check interior room lamps for a short circuit. If OK, replace BCM. Refer to [BCS-54, "Removal and Installation"](#). If NG, replace interior room lamp. Refer to [INL-72, "Removal and Installation"](#) or [EXL-141, "Removal and Installation"](#).
- NO >> Repair the harness or connectors.

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STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Description

INFOID:000000009822384

Controls the front and rear step lamps and the foot lamps (if equipped) (ground side) to turn the lamps ON and OFF.

Component Function Check

INFOID:000000009822385

CAUTION:

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

- Battery saver output/power supply
- Front step lamp bulbs
- Rear step lamp bulbs
- Foot lamp bulbs (if equipped)

1. CHECK STEP LAMP OPERATION

Ⓜ WITH CONSULT

1. Turn ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check that the front step lamps, rear step lamps and foot lamps (if equipped) turn ON/OFF.

- ON** : Step lamp ON
OFF : Step lamp OFF

Is the inspection result normal?

- YES >> Step lamp circuit is normal.
 NO >> Refer to [INL-22, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009822386

Regarding Wiring Diagram information, refer to [INL-39, "Wiring Diagram"](#).

1. CHECK STEP LAMP OUTPUT

Ⓜ WITH CONSULT

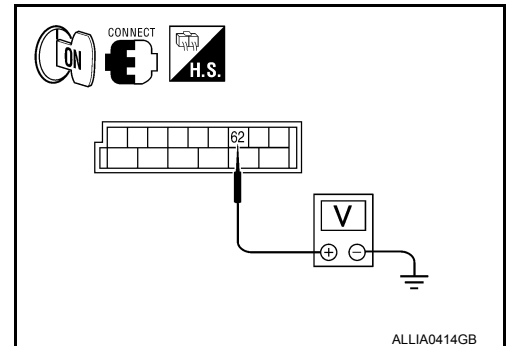
1. Turn ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M20 terminal 62 and ground.

| Connector | Terminal | — | STEP LAMP TEST | Voltage |
|-----------|----------|--------|----------------|-----------------|
| M20 | 62 | Ground | ON | 0V |
| | | | OFF | Battery voltage |

Is the inspection result normal?

- YES >> Step lamp control circuit is operating normally.
 Fixed ON>> GO TO 3
 Fixed OFF>> GO TO 2

2. CHECK STEP LAMP OPEN CIRCUIT

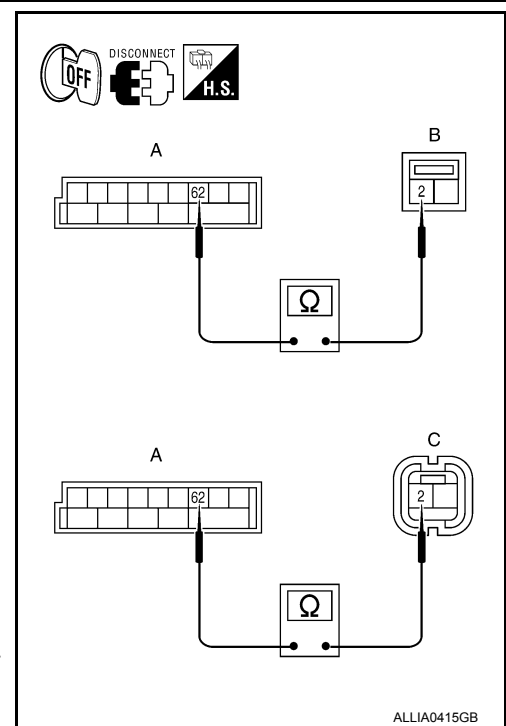


STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and front step lamp, rear step lamp and foot lamp connectors (if equipped).
3. Check continuity between BCM connector M20 (A) terminal 62 and step lamp connectors (B) terminal 2 and foot lamp connectors (C) terminal 2.

| Connector | Terminal | Connector | Terminal | Continuity | |
|-----------|----------|----------------------------|----------|------------|-----|
| M20 (A) | 62 | Front step lamp LH | D11 (B) | 2 | Yes |
| | | Front step lamp RH | D109 (B) | 2 | |
| | | Rear step lamp LH | D206 (B) | 2 | |
| | | Rear step lamp RH | D306 (B) | 2 | |
| | | Foot lamp LH (if equipped) | M99 (C) | 2 | |
| | | Foot lamp RH (if equipped) | M100 (C) | 2 | |



Is the inspection result normal?

YES >> Check step lamp or foot lamp for an open. If OK, replace BCM. Refer to [BCS-54. "Removal and Installation"](#). If NG, replace step lamp or foot lamp. Refer to [INL-72. "Removal and Installation"](#).

NO >> Repair harness or connectors.

3. CHECK STEP LAMP SHORT CIRCUIT

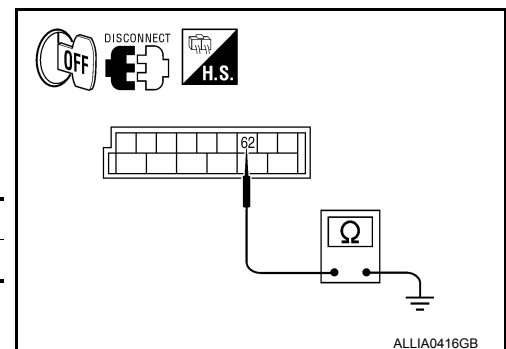
1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, front step lamp, rear step lamp and foot lamp connectors (if equipped).
3. Check continuity between BCM connector M20 terminal 62 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M20 | 62 | Ground | No |

Is the inspection result normal?

YES >> Check step lamp or foot lamp for a short circuit. If OK, replace BCM. Refer to [BCS-54. "Removal and Installation"](#). If NG, replace step lamp or foot lamp. Refer to [INL-72. "Removal and Installation"](#).

NO >> Repair the harness or connectors.



CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

CARGO LAMP CONTROL CIRCUIT

Description

INFOID:000000009822387

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

Component Function Check

INFOID:000000009822388

CAUTION:

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

- Battery saver output/power supply
- Cargo lamp bulb

1.CHECK CARGO LAMP OPERATION

Ⓜ WITH CONSULT

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

ON : Cargo lamp ON

OFF : Cargo lamp OFF

Is the inspection result normal?

- YES >> Cargo lamp circuit is normal.
NO >> Refer to [INL-24, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009822389

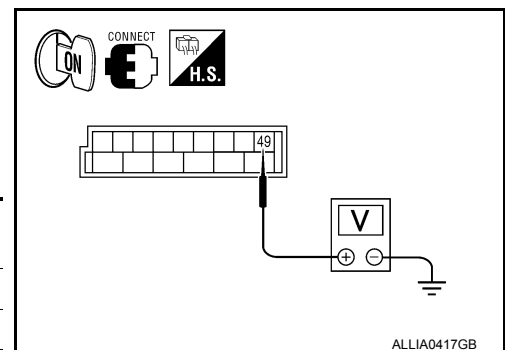
Regarding Wiring Diagram information, refer to [INL-39, "Wiring Diagram"](#).

1.CHECK CARGO LAMP OUTPUT

Ⓜ WITH CONSULT

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 connector M19 terminal 49 and ground.

| Connector | Terminal | — | LUGGAGE LAMP TEST | Voltage |
|-----------|----------|--------|-------------------|-----------------|
| M19 | 49 | Ground | ON | 0V |
| | | | OFF | Battery voltage |



Is the inspection result normal?

- YES >> Cargo lamp control circuit is operating normally.
Fixed ON>> GO TO 3
Fixed OFF>> GO TO 2

2.CHECK CARGO LAMP OPEN CIRCUIT

CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM connector M19 and cargo lamp connector.
3. Check continuity between BCM connector M19 (A) terminal 49 and cargo lamp connector B153 (B) terminal 1.

| BCM | | Cargo lamp | | Continuity |
|-----------|----------|------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M19 (A) | 49 | B153 (B) | 1 | Yes |

Is the inspection result normal?

- YES >> Check cargo lamp for an open. If OK, replace BCM. Refer to [BCS-54, "Removal and Installation"](#). If NG, replace cargo lamp. Refer to [INL-77, "Removal and Installation"](#).
- NO >> Repair harness or connectors.

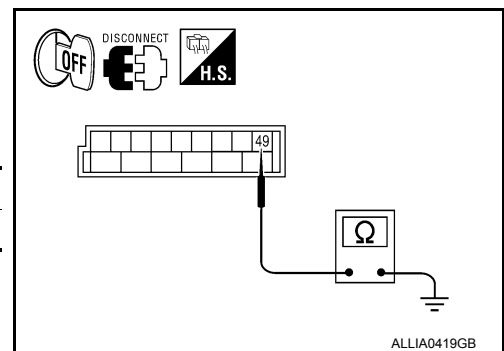
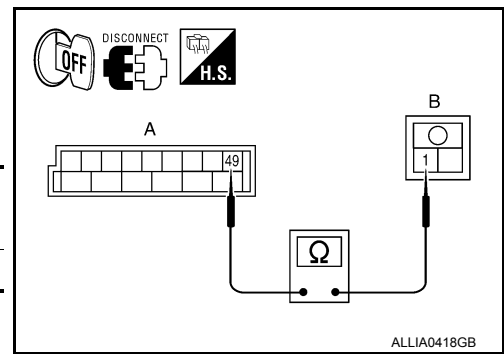
3.CHECK CARGO LAMP SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M19 and cargo lamp connector.
3. Check continuity between BCM connector M19 terminal 49 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M19 | 49 | Ground | No |

Is the inspection result normal?

- YES >> Check cargo lamp for a short circuit. If OK, replace BCM. Refer to [BCS-54, "Removal and Installation"](#). If NG, replace cargo lamp. Refer to [INL-77, "Removal and Installation"](#).
- NO >> Repair harness or connectors.



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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description

INFOID:000000009822390

Controls the ignition keyhole illumination (ground side) to turn the ignition keyhole illumination ON and OFF.

Component Function Check

INFOID:000000009822391

CAUTION:

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

- Battery saver output/power supply circuit
- Ignition keyhole illumination bulb

1.CHECK IGNITION KEYHOLE ILLUMINATION OPERATION

Ⓜ WITH CONSULT

1. Turn the ignition switch ON.
2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
3. While operating the test item, check that the ignition keyhole illumination turns ON/OFF

ON : Ignition keyhole illumination ON

OFF : Ignition keyhole illumination OFF

Is the inspection result normal?

- YES >> Ignition keyhole illumination circuit is normal.
NO >> Refer to [INL-26, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009822392

Regarding Wiring Diagram information, refer to [INL-39, "Wiring Diagram"](#).

1.CHECK IGNITION KEYHOLE OUTPUT

Ⓜ WITH CONSULT

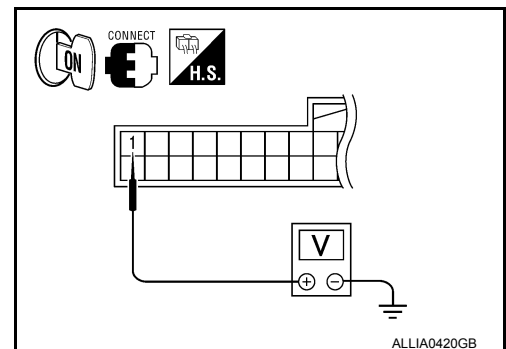
1. Turn ignition switch ON.
2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M18 terminal 1 and ground.

| Connector | Terminal | — | IGN ILLUM | Voltage |
|-----------|----------|--------|-----------|-----------------|
| M18 | 1 | Ground | ON | 0V |
| | | | OFF | Battery voltage |

Is the inspection result normal?

- YES >> Ignition keyhole illumination circuit is operating normally.
Fixed ON>> GO TO 3
Fixed OFF>> GO TO 2

2.CHECK IGNITION KEYHOLE ILLUMINATION OPEN CIRCUIT



IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
3. Check continuity between BCM connector M18 (A) terminal 1 and ignition keyhole illumination connector M150 (B) terminal 2.

| BCM | | Ignition keyhole illumination | | Continuity |
|-----------|----------|-------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M18 (A) | 1 | M150 (B) | 2 | Yes |

Is the inspection result normal?

- YES >> Check the ignition keyhole illumination for an open. If OK, replace BCM. Refer to [BCS-54. "Removal and Installation"](#). If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.

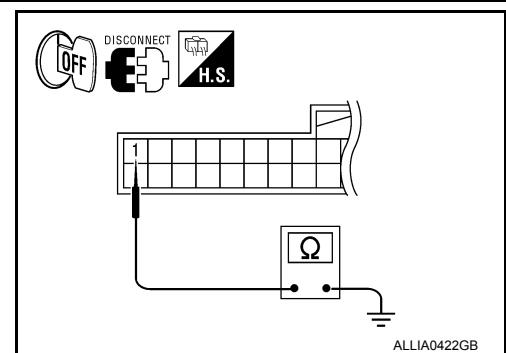
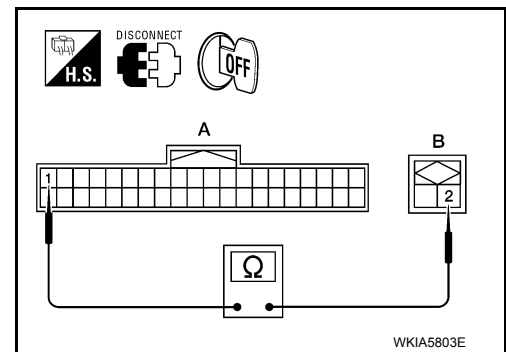
3.CHECK IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
3. Check continuity between BCM connector M18 terminal 1 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M18 | 1 | Ground | No |

Is the inspection result normal?

- YES >> Check the ignition keyhole illumination for a short circuit. If OK, replace BCM. Refer to [BCS-54. "Removal and Installation"](#). If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000009822393

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength
- Test remote keyless entry keyfob relative signal strength

VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | Value/Status |
|---------------|--|-------------------------------|
| ACC ON SW | Ignition switch OFF or ON | Off |
| | Ignition switch ACC | On |
| AIR COND SW | A/C switch OFF | Off |
| | A/C switch ON | On |
| AIR PRESS FL | Front left tire air pressure value | kPa, kg/cm ² , psi |
| AIR PRESS FR | Front right tire air pressure value | kPa, kg/cm ² , psi |
| AIR PRESS RL | Rear left tire air pressure value | kPa, kg/cm ² , psi |
| AIR PRESS RR | Rear right tire air pressure value | kPa, kg/cm ² , psi |
| AUTO LIGHT SW | Lighting switch OFF | Off |
| | Lighting switch AUTO | On |
| BACK DOOR SW | Back door closed | Off |
| | Back door opened | On |
| BRAKE SW | Brake pedal released | Off |
| | Brake pedal applied | On |
| BUCKLE SW | Seat belt buckle unfastened | Off |
| | Seat belt buckle fastened | On |
| BUZZER | Buzzer in combination meter OFF | Off |
| | Buzzer in combination meter ON | On |
| CARGO LAMP SW | Cargo lamp switch OFF | Off |
| | Cargo lamp switch ON | On |
| CDL LOCK SW | Door lock/unlock switch does not operate | Off |
| | Press door lock/unlock switch to the LOCK side | On |
| CDL UNLOCK SW | Door lock/unlock switch does not operate | Off |
| | Press door lock/unlock switch to the UNLOCK side | On |
| DOOR SW-AS | Front door RH closed | Off |
| | Front door RH opened | On |
| DOOR SW-DR | Front door LH closed | Off |
| | Front door LH opened | On |
| DOOR SW-RL | Rear door LH closed | Off |
| | Rear door LH opened | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|---------------------------|--|--------------|---|
| DOOR SW-RR | Rear door RH closed | Off | A |
| | Rear door RH opened | On | |
| FAN ON SIG | Blower motor fan switch OFF | Off | B |
| | Blower motor fan switch ON | On | |
| FR FOG SW | Front fog lamp switch OFF | Off | C |
| | Front fog lamp switch ON | On | |
| FR WASHER SW | Front washer switch OFF | Off | D |
| | Front washer switch ON | On | |
| FR WIPER LOW | Front wiper switch OFF | Off | E |
| | Front wiper switch LO | On | |
| FR WIPER HI | Front wiper switch OFF | Off | F |
| | Front wiper switch HI | On | |
| FR WIPER INT | Front wiper switch OFF | Off | G |
| | Front wiper switch INT | On | |
| FR WIPER STOP | Any position other than front wiper stop position | Off | H |
| | Front wiper stop position | On | |
| HAZARD SW | When hazard switch is not pressed | Off | I |
| | When hazard switch is pressed | On | |
| HEAD LAMP SW1 | Headlamp switch OFF | Off | J |
| | Headlamp switch 1st | On | |
| HEAD LAMP SW2 | Headlamp switch OFF | Off | K |
| | Headlamp switch 1st | On | |
| HI BEAM SW | High beam switch OFF | Off | L |
| | High beam switch HI | On | |
| ID REGST FL1 | ID registration of front left tire incomplete | YET | M |
| | ID registration of front left tire complete | DONE | |
| ID REGST FR1 | ID registration of front right tire incomplete | YET | N |
| | ID registration of front right tire complete | DONE | |
| ID REGST RL1 | ID registration of rear left tire incomplete | YET | O |
| | ID registration of rear left tire complete | DONE | |
| ID REGST RR1 | ID registration of rear right tire incomplete | YET | P |
| | ID registration of rear right tire complete | DONE | |
| IGN ON SW | Ignition switch OFF or ACC | Off | |
| | Ignition switch ON | On | |
| IGN SW CAN | Ignition switch OFF or ACC | Off | |
| | Ignition switch ON | On | |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | 1 - 7 | |
| I-KEY LOCK ¹ | LOCK button of Intelligent Key is not pressed | Off | |
| | LOCK button of Intelligent Key is pressed | On | |
| I-KEY PANIC ¹ | PANIC button of Intelligent Key is not pressed | Off | |
| | PANIC button of Intelligent Key is pressed | On | |
| I-KEY PW DWN ¹ | UNLOCK button of Intelligent Key is not pressed | Off | |
| | UNLOCK button of Intelligent Key is pressed for greater than 3 seconds and driver's window operating in DOWN direction | On | |

BCM (BODY CONTROL MODULE)


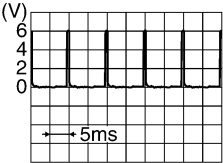

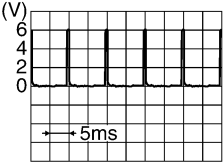
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|-----------------------------|--|-----------------------------------|
| I-KEY UNLOCK ¹ | UNLOCK button of Intelligent Key is not pressed | Off |
| | UNLOCK button of Intelligent Key is pressed | On |
| KEY CYL LK-SW | Door key cylinder LOCK position | Off |
| | Door key cylinder other than LOCK position | On |
| KEY CYL UN-SW | Door key cylinder UNLOCK position | Off |
| | Door key cylinder other than UNLOCK position | On |
| KEY ON SW | Mechanical key is removed from key cylinder | Off |
| | Mechanical key is inserted to key cylinder | On |
| KEYLESS LOCK ² | LOCK button of key fob is not pressed | Off |
| | LOCK button of key fob is pressed | On |
| KEYLESS PANIC ² | PANIC button of key fob is not pressed | Off |
| | PANIC button of key fob is pressed | On |
| KEYLESS UNLOCK ² | UNLOCK button of key fob is not pressed | Off |
| | UNLOCK button of key fob is pressed | On |
| LIGHT SW 1ST | Lighting switch OFF | Off |
| | Lighting switch 1st | On |
| OIL PRESS SW | <ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running | Off |
| | Ignition switch ON | On |
| OPTICAL SENSOR | Bright outside of the vehicle | Close to 5V |
| | Dark outside of the vehicle | Close to 0V |
| PASSING SW | Other than lighting switch PASS | Off |
| | Lighting switch PASS | On |
| PUSH SW ¹ | Return to ignition switch to LOCK position | Off |
| | Press ignition switch | On |
| REAR DEF SW | Rear window defogger switch OFF | Off |
| | Rear window defogger switch ON | On |
| RR WASHER SW | Rear washer switch OFF | Off |
| | Rear washer switch ON | On |
| RR WIPER INT | Rear wiper switch OFF | Off |
| | Rear wiper switch INT | On |
| RR WIPER ON | Rear wiper switch OFF | Off |
| | Rear wiper switch ON | On |
| RR WIPER STOP | Rear wiper stop position | Off |
| | Other than rear wiper stop position | On |
| RR WIPER STP2 | Rear wiper stop position | Off |
| | Other than rear wiper stop position | On |
| TURN SIGNAL L | Turn signal switch OFF | Off |
| | Turn signal switch LH | On |
| TURN SIGNAL R | Turn signal switch OFF | Off |
| | Turn signal switch RH | On |
| VEHICLE SPEED | While driving | Equivalent to speedometer reading |
| WARNING LAMP | Low tire pressure warning lamp in combination meter OFF | Off |
| | Low tire pressure warning lamp in combination meter ON | On |

1: With Intelligent Key

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|---|---------------------|---------------------|--|---|
| | | | | Ignition switch | Operation or condition | |
| 1 | BR/W | Ignition keyhole illumination | Output | OFF | Door is locked (SW OFF) | Battery voltage |
| | | | | | Door is unlocked (SW ON) | 0V |
| 2 | SB | Combination switch input 5 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5291E</p> |
| 3 | G/Y | Combination switch input 4 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5292E</p> |
| 4 | Y | Combination switch input 3 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5291E</p> |
| 5 | G/B | Combination switch input 2 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5292E</p> |
| 6 | V | Combination switch input 1 | | | | |
| 9 | R/G | Stop lamp switch | Input | OFF | Brake pedal depressed | Battery voltage |
| | | | | | Brake pedal released | 0V |
| 10 | G | Hazard lamp flash | Input | OFF | ON (opening or closing) | 0V |
| | | | | | OFF (other than above) | Battery voltage |
| 11 | O | Ignition switch (ACC or ON) | Input | ACC or ON | Ignition switch ACC or ON | Battery voltage |
| 12 | R/L | Front door switch RH | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 13 | GR | Rear door switch RH | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 15 | L/W | Tire pressure warning check connector | Input | OFF | — | 5V |
| 18 | P | Remote keyless entry receiver and optical sensor (ground) | Output | OFF | — | 0V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

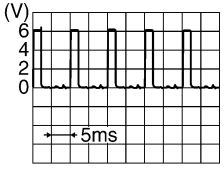
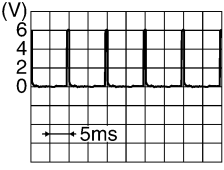
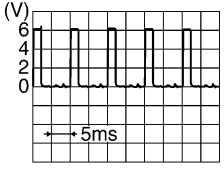
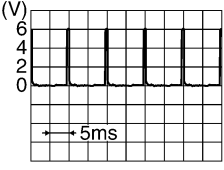
| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|--|---------------------|---------------------|---|--|
| | | | | Ignition switch | Operation or condition | |
| 19 | V/W | Remote keyless entry receiver (power supply) | Output | OFF | Ignition switch OFF | <p style="text-align: right;">LIIA1893E</p> |
| 20 | G/W | Remote keyless entry receiver (signal) | Input | OFF | Stand-by (keyfob buttons released) | <p style="text-align: right;">LIIA1894E</p> |
| | | | | | When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed) | <p style="text-align: right;">LIIA1895E</p> |
| 21 | G | NATS antenna amp. | Input | OFF → ON | Ignition switch (OFF → ON) | Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage. |
| 22 | W/V | BUS | — | — | Ignition switch ON or power window timer operates | <p style="text-align: right;">PIIA2344E</p> |
| 23 | G/O | Security indicator lamp | Output | OFF | Goes OFF → illuminates (Every 2.4 seconds) | Battery voltage → 0V |
| 25 | BR | NATS antenna amp. | Input | OFF → ON | Ignition switch (OFF → ON) | Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage. |
| 26 | Y/L | Rear wiper auto stop switch 2 | Input | ON | Rise up position (rear wiper arm on stopper) | 0V |
| | | | | | A Position (full clockwise stop position) | 0V |
| | | | | | Forward sweep (counterclockwise direction) | Fluctuating |
| | | | | | B Position (full counterclockwise stop position) | Battery voltage |
| | | | | | Reverse sweep (clockwise direction) | Fluctuating |
| 27 | W/R | Compressor ON signal | Input | ON | A/C switch OFF | 5V |
| | | | | | A/C switch ON | 0V |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|-----------------|------------|-------------------------------------|---------------------|---------------------|---|---|
| | | | | Ignition switch | Operation or condition | |
| 28 | L/R | Front blower monitor | Input | ON | Front blower motor OFF | Battery voltage |
| | | | | | Front blower motor ON | 0V |
| 29 | W/B | Hazard switch | Input | OFF | ON | 0V |
| | | | | | OFF | 5V |
| 32 | R/G | Combination switch output 5 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5291E</p> |
| 33 | R/Y | Combination switch output 4 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5292E</p> |
| 34 | L | Combination switch output 3 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5291E</p> |
| 35 | O/B | Combination switch output 2 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 |  <p style="text-align: right; font-size: small;">SKIA5292E</p> |
| 36 | R/W | Combination switch output 1 | | | | |
| 37 ¹ | B/R | Key switch and ignition knob switch | Input | OFF | Intelligent Key inserted Intelligent Key removed | Battery voltage 0V |
| 37 ² | B/R | Key switch and key lock solenoid | Input | OFF | Key inserted | Battery voltage |
| | | | | | Key removed | 0V |
| 38 | W/L | Ignition switch (ON) | Input | ON | — | Battery voltage |
| 39 | L | CAN-H | — | — | — | — |
| 40 | P | CAN-L | — | — | — | — |
| 41 | GR/R | Rear window defogger switch | Input | ON | Rear window defogger switch ON | 0V |
| | | | | | Rear window defogger switch OFF | 5V |
| 42 | GR | Glass hatch ajar switch | Input | ON | Glass hatch open | 0 |
| | | | | | Glass hatch closed | Battery |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

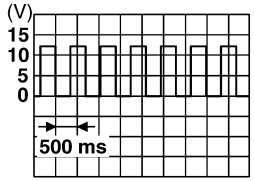
| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|---|---------------------|---------------------|--|---|
| | | | | Ignition switch | Operation or condition | |
| 43 | R/B | Back door switch (without power back door) or back door latch (door ajar switch) (with power back door) | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 44 | O | Rear wiper auto stop switch 1 | Input | ON | Rise up position (rear wiper arm on stopper) | 0V |
| | | | | | A Position (full clockwise stop position) | Battery voltage |
| | | | | | Forward sweep (counterclockwise direction) | Fluctuating |
| | | | | | B Position (full counterclockwise stop position) | 0V |
| | | | | | Reverse sweep (clockwise direction) | Fluctuating |
| 47 | SB | Front door switch LH | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 48 | R/Y | Rear door switch LH | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 49 | R | Cargo lamp | Output | OFF | Any door open (ON) | 0V |
| | | | | | All doors closed (OFF) | Battery voltage |
| 51 | Y/B | Trailer turn signal (right) | Output | ON | Turn right ON | <p style="text-align: right; font-size: small;">SKIA3009J</p> |
| 52 | G/B | Trailer turn signal (left) | Output | ON | Turn left ON | <p style="text-align: right; font-size: small;">SKIA3009J</p> |
| 54 | Y | Rear wiper output circuit 2 | Input | ON | Rise up position (rear wiper arm on stopper) | 0V |
| | | | | | A Position (full clockwise stop position) | 0V |
| | | | | | Forward sweep (counterclockwise direction) | 0V |
| | | | | | B Position (full counterclockwise stop position) | Battery voltage |
| | | | | | Reverse sweep (clockwise direction) | Battery voltage |
| 55 | SB | Rear wiper output circuit 1 | Output | ON | OFF | 0 |
| | | | | | ON | Battery voltage |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal | Wire color | Signal name | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) | |
|----------|------------|--|---------------------|---------------------|---|--|----|
| | | | | Ignition switch | Operation or condition | | |
| 56 | R/G | Battery saver output | Output | OFF | 10 minutes after ignition switch is turned OFF | 0V | |
| | | | | ON | — | Battery voltage | |
| 57 | Y/R | Battery power supply | Input | OFF | — | Battery voltage | |
| 58 | W/R | Optical sensor | Input | ON | When optical sensor is illuminated | 3.1V or more | |
| | | | | | When optical sensor is not illuminated | 0.6V or less | |
| 59 | G | Front door lock assembly LH actuator (unlock) | Output | OFF | OFF (neutral) | 0V | |
| | | | | | ON (unlock) | Battery voltage | |
| 60 | G/B | Turn signal (left) | Output | ON | Turn left ON |  | |
| 61 | G/Y | Turn signal (right) | Output | ON | Turn right ON |  | |
| 62 | R/W | Step lamp LH and RH | Output | OFF | ON (any door open) | 0V | |
| | | | | | OFF (all doors closed) | Battery voltage | |
| 63 | L | Interior room/map lamp | Output | OFF | Any door switch | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage | |
| 65 | V | All door lock actuators (lock) | Output | OFF | OFF (neutral) | 0V | |
| | | | | | ON (lock) | Battery voltage | |
| 66 | G/Y | Front door lock actuator RH, rear door lock actuators LH/RH and back door lock actuator (unlock) | Output | OFF | OFF (neutral) | 0V | |
| | | | | | ON (unlock) | Battery voltage | |
| 67 | B | Ground | Input | ON | — | 0V | |
| 68 | W/L | Power window power supply (RAP) | Output | — | Ignition switch ON | Battery voltage | |
| | | | | | Within 45 seconds after ignition switch OFF | Battery voltage | |
| | | | | | More than 45 seconds after ignition switch OFF | 0V | |
| | | | | | When front door LH or RH is open or power window timer operates | 0V | |
| 69 | W/R | Power window power supply | Output | — | — | Battery voltage | |
| 70 | W/B | Battery power supply | Input | OFF | — | Battery voltage | |

1: With Intelligent Key system

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

2: With remote keyless entry system

Fail Safe

INFOID:000000009822396

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|-------------------------|---|
| U1000: CAN COMM CIRCUIT | Inhibit engine cranking | When the BCM re-establishes communication with the other modules. |

DTC Inspection Priority Chart

INFOID:000000009822397

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

| Priority | DTC |
|----------|--|
| 1 | <ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT |
| 2 | <ul style="list-style-type: none"> B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2013: STRG COMM 1 B2552: INTELLIGENT KEY B2590: NATS MALFUNCTION |
| 3 | <ul style="list-style-type: none"> C1729: VHCL SPEED SIG ERR C1735: IGNITION SIGNAL |
| 4 | <ul style="list-style-type: none"> 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 |

DTC Index

INFOID:000000009822398

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.

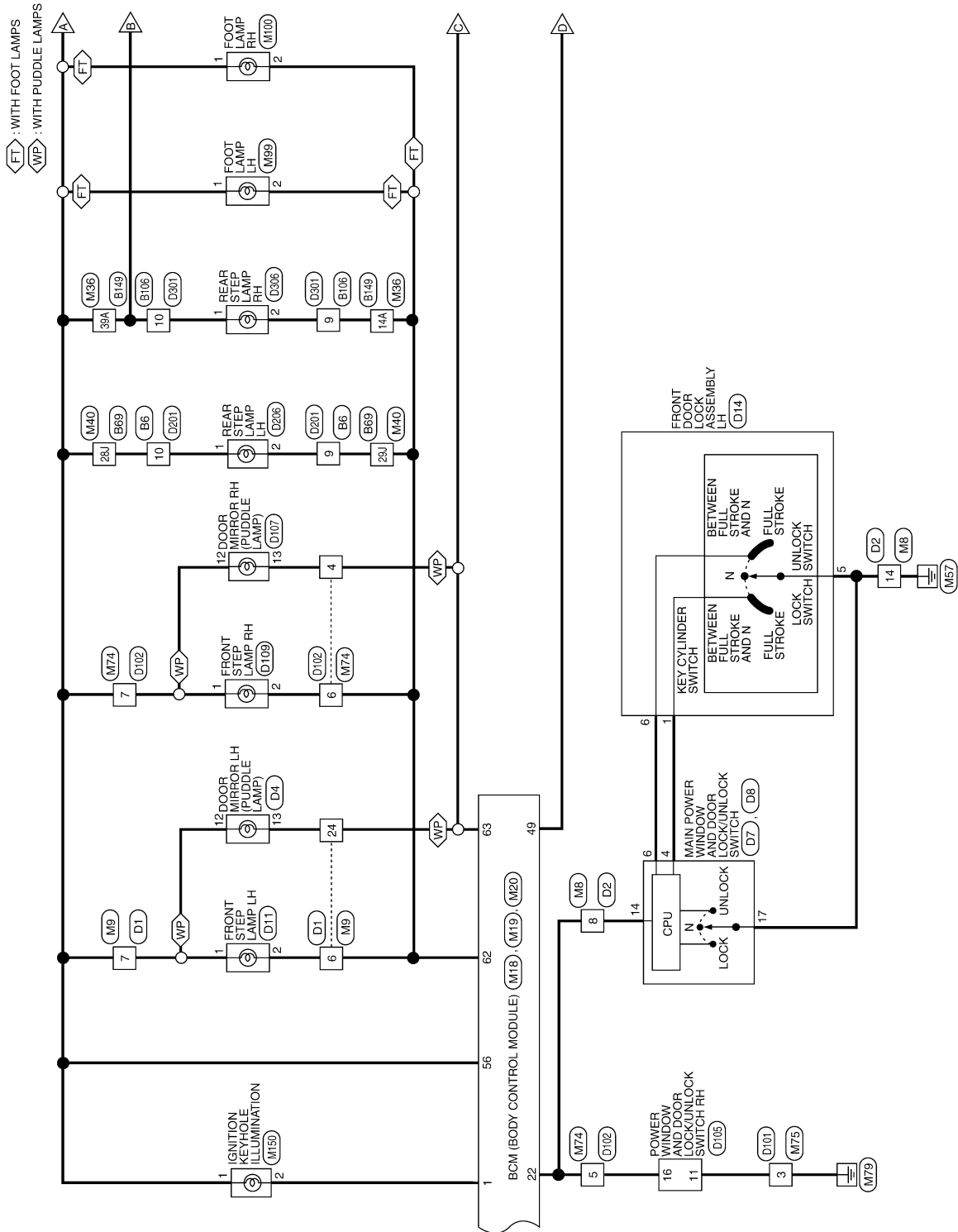
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| 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 | — | — | — | BCS-29 |
| B2013: STRG COMM 1 | — | — | — | SEC-30 |
| B2190: NATS ANTENNA AMP | — | — | — | SEC-33 (with I- Key), SEC-140 (without I-Key) |
| B2191: DIFFERENCE OF KEY | — | — | — | SEC-36 (with I- Key), SEC-143 (without I-Key) |
| B2192: ID DISCORD BCM-ECM | — | — | — | SEC-37 (with I- Key), SEC-144 (without I-Key) |
| B2193: CHAIN OF BCM-ECM | — | — | — | SEC-39 (with I- Key), SEC-146 (without I-Key) |
| B2552: INTELLIGENT KEY | — | — | — | SEC-41 |
| B2590: NATS MALFUNCTION | — | — | — | SEC-42 |
| C1708: [NO DATA] FL | — | — | — | WT-13 |
| C1709: [NO DATA] FR | — | — | — | WT-15 |
| C1710: [NO DATA] RR | — | — | — | WT-15 |
| C1711: [NO DATA] RL | — | — | — | WT-15 |
| C1712: [CHECKSUM ERR] FL | — | — | — | WT-15 |
| C1713: [CHECKSUM ERR] FR | — | — | — | WT-15 |
| C1714: [CHECKSUM ERR] RR | — | — | — | WT-15 |
| C1715: [CHECKSUM ERR] RL | — | — | — | WT-15 |
| C1716: [PRESSDATA ERR] FL | — | — | — | WT-17 |
| C1717: [PRESSDATA ERR] FR | — | — | — | WT-15 |
| C1718: [PRESSDATA ERR] RR | — | — | — | WT-15 |
| C1719: [PRESSDATA ERR] RL | — | — | — | WT-15 |
| C1720: [CODE ERR] FL | — | — | — | WT-15 |
| C1721: [CODE ERR] FR | — | — | — | WT-15 |
| C1722: [CODE ERR] RR | — | — | — | WT-15 |
| C1723: [CODE ERR] RL | — | — | — | WT-15 |
| C1724: [BATT VOLT LOW] FL | — | — | — | WT-15 |
| C1725: [BATT VOLT LOW] FR | — | — | — | WT-15 |
| C1726: [BATT VOLT LOW] RR | — | — | — | WT-15 |
| C1727: [BATT VOLT LOW] RL | — | — | — | WT-15 |
| C1729: VHCL SPEED SIG ERR | — | — | — | WT-19 |
| C1735: IGN_CIRCUIT_OPEN | — | — | — | WT-20 |

INTERIOR ROOM LAMP CONTROL SYSTEM

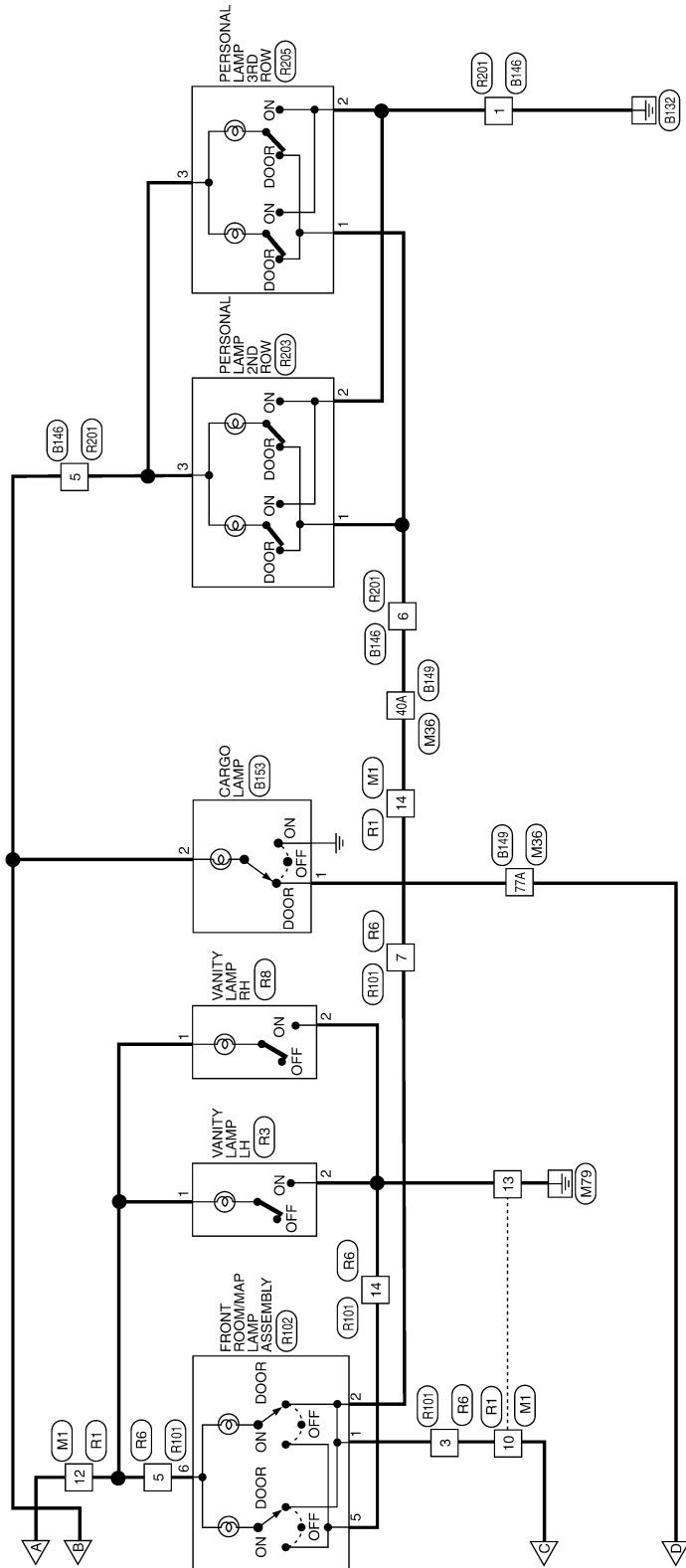
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INTERIOR ROOM LAMP CONTROL SYSTEM

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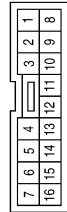
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INTERIOR ROOM LAMP CONTROL SYSTEM

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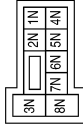
INTERIOR ROOM LAMP CONNECTORS

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



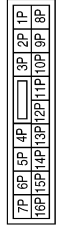
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | L | - |
| 12 | R/G | - |
| 13 | B | - |
| 14 | R | - |

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



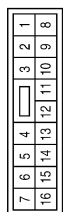
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1N | Y/R | - |

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



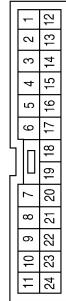
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 13P | P | - |

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| Connector No. | M8 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



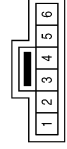
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | W/V | - |
| 14 | B | - |

| | |
|-----------------|--------------|
| Connector No. | M9 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | R/W | - |
| 7 | R/G | - |
| 24 | L | - |

| | |
|-----------------|--|
| Connector No. | M12 |
| Connector Name | KEY SWITCH AND IGNITION KNOB SWITCH |
| Connector Color | GRAY |




| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | Y | - |
| 4 | B/R | - |

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >


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



| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 | 69 | 70 | | | |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 56 | R/G | BATTERY SAVER OUTPUT |
| 57 | Y/R | BAT (FUSE) |
| 62 | R/W | STEP LAMP OUTPUT |
| 63 | L | ROOM LAMP OUTPUT |
| 67 | B | GND (POWER) |
| 70 | W/B | BAT (F/L) |


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



| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 50 | 51 | 52 | 53 | 54 | 55 | | | |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------|
| 42 | GR | GLASS HATCH SW |
| 43 | R/B | BACK DOOR SW |
| 47 | SB | DOOR SW (DR) |
| 48 | R/Y | DOOR SW (RL) |
| 49 | R | LUGGAGE LAMP OUTPUT |


| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| 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 | BR/W | KEY RING OUTPUT |
| 12 | R/L | DOOR SW (AS) |
| 13 | GR | DOOR SW (RR) |
| 22 | W/V | ANTI-PINCH SERIAL LINK (RX, TX) |
| 37 | B/R | KEY SW |
| 38 | W/L | IGN SW |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|-----------------|----------------------------------|
| Connector No. | M27 |
| Connector Name | KEY SWITCH AND KEY LOCK SOLENOID |
| Connector Color | WHITE |



| | | | |
|---|---|---|---|
| 4 | 3 | 2 | 1 |
|---|---|---|---|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | P | - |
| 4 | B/R | - |

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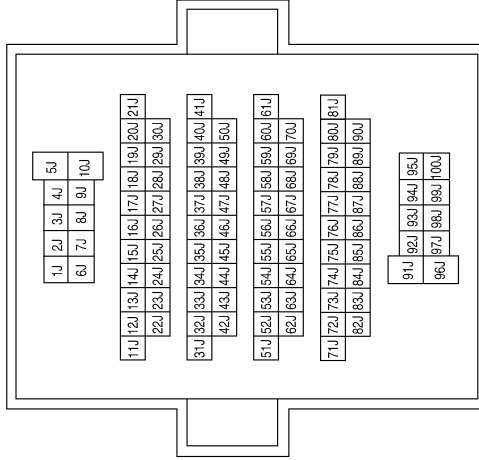
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INTERIOR ROOM LAMP CONTROL SYSTEM

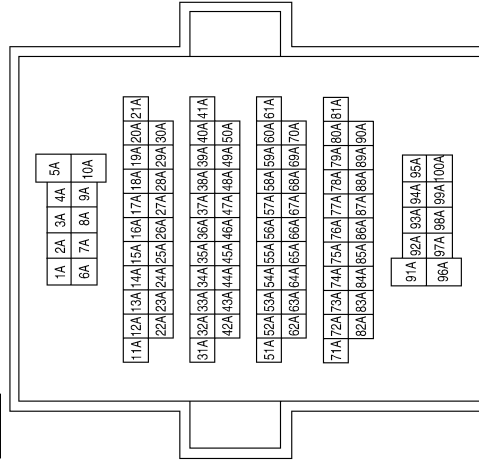
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|-----------------|--------------|
| Connector No. | M40 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



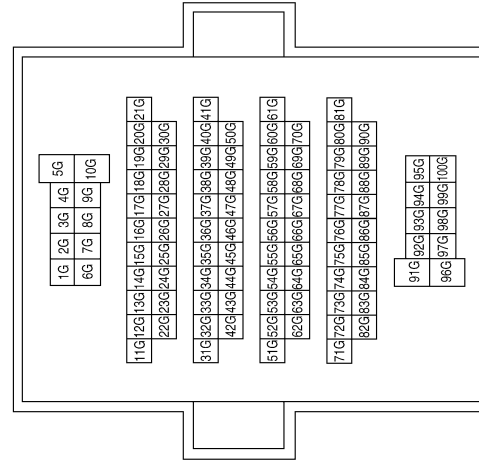
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 21J | R/Y | - |
| 28J | R/G | - |
| 29J | R/W | - |
| 30J | SB | - |

| | |
|-----------------|--------------|
| Connector No. | M36 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 14A | R/W | - |
| 15A | R/B | - |
| 21A | R/L | - |
| 25A | GR | - |
| 26A | GR | - |
| 39A | R/G | - |
| 40A | R | - |
| 77A | R | - |

| | |
|-----------------|--------------|
| Connector No. | M31 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 60G | Y | - |
| 96G | W/B | - |
| 99G | W/L | - |

ABLIA4161GB

INTERIOR ROOM LAMP CONTROL SYSTEM

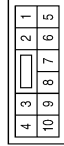
< WIRING DIAGRAM >

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|-----------------|--------------|
| Connector No. | M99 |
| Connector Name | FOOT LAMP LH |
| Connector Color | BROWN |



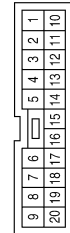
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/G | - |
| 2 | R/W | - |

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|-----------------|--------------|
| Connector No. | M75 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | B | - |

| | |
|-----------------|--------------|
| Connector No. | M74 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | L | - |
| 5 | W/V | - |
| 6 | R/W | - |
| 7 | R/G | - |

| | |
|-----------------|-------------------------------|
| Connector No. | M150 |
| Connector Name | IGNITION KEYHOLE ILLUMINATION |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/G | - |
| 2 | BRW | - |

| | |
|-----------------|--------------|
| Connector No. | M100 |
| Connector Name | FOOT LAMP RH |
| Connector Color | BROWN |



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

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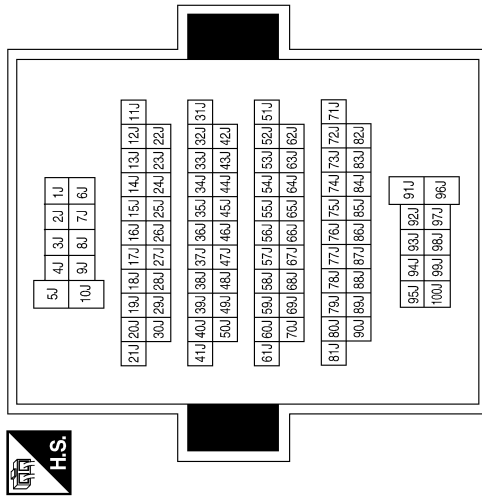
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INTERIOR ROOM LAMP CONTROL SYSTEM

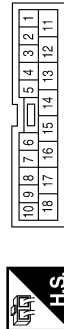
< WIRING DIAGRAM >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 21J | R/Y | - |
| 28J | R/G | - |
| 29J | R/W | - |
| 30J | SB | - |

| Connector No. | B69 |
|-----------------|--------------|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

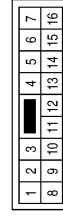


| Connector No. | B48 |
|-----------------|--------------|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

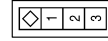


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 14 | B | - |
| 15 | R/W | - |

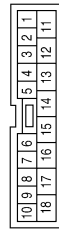
| Connector No. | B111 |
|-----------------|--------------|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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



| Connector No. | B106 |
|-----------------|--------------|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | R/L | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/W | - |
| 10 | R/G | - |

ABLIA4164GB

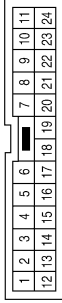
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INTERIOR ROOM LAMP CONTROL SYSTEM

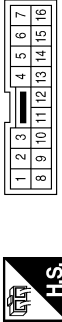
< WIRING DIAGRAM >

| | |
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| Connector No. | B146 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 5 | R/G | - |
| 6 | R | - |

| | |
|-----------------|--------------|
| Connector No. | B139 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 13 | GR | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | GR | - |

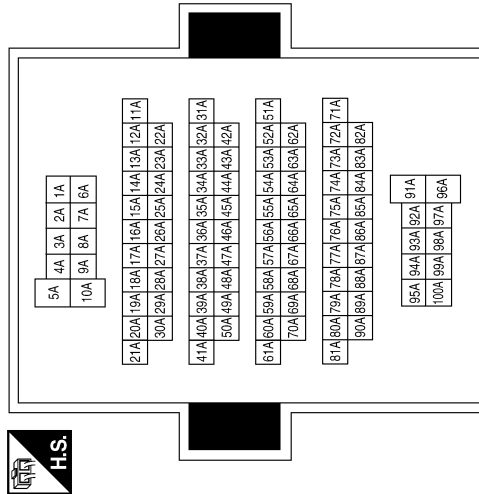
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| Connector No. | B153 |
| Connector Name | CARGO LAMP |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | R/G | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 14A | R/W | - |
| 15A | R/W | - |
| 21A | R/L | - |
| 25A | GR | - |
| 26A | GR | - |
| 39A | R/G | - |
| 40A | R | - |
| 77A | R | - |

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|-----------------|--------------|
| Connector No. | B149 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

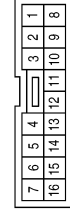


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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

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|-----------------|--------------|
| Connector No. | R6 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



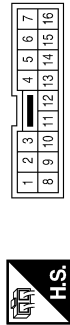
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | L | - |
| 5 | R/G | - |
| 7 | R | - |
| 14 | B | - |

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



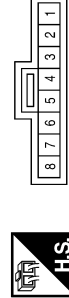
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/G | - |
| 2 | B | - |

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



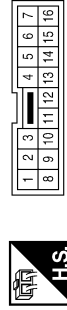
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | L | - |
| 12 | R/G | - |
| 13 | B | - |
| 14 | R | - |

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|-----------------|------------------------------|
| Connector No. | R102 |
| Connector Name | FRONT ROOM/MAP LAMP ASSEMBLY |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | R | - |
| 5 | B | - |
| 6 | R/G | - |

| | |
|-----------------|--------------|
| Connector No. | R101 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | L | - |
| 5 | R/G | - |
| 7 | R | - |
| 14 | B | - |

| | |
|-----------------|----------------|
| Connector No. | R8 |
| Connector Name | VANITY LAMP RH |
| Connector Color | WHITE |



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

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

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| Connector No. | R205 |
| Connector Name | PERSONAL LAMP 3RD ROW |
| Connector Color | WHITE |



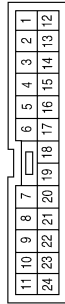
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | B | - |
| 3 | R/G | - |

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|-----------------|--------------------------|
| Connector No. | R203 |
| Connector Name | PERSONAL LAMP 2ND ROW |
| Connector Color | WHITE |



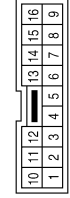
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | B | - |
| 3 | R/G | - |

| | |
|-----------------|--------------|
| Connector No. | R201 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



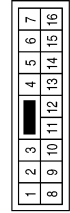
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 5 | R/G | - |
| 6 | R | - |

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|-----------------|--|
| Connector No. | D4 |
| Connector Name | DOOR MIRROR LH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |



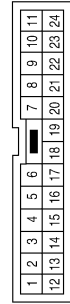
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | R/G | - |
| 13 | L | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | LG/W | - |
| 14 | B | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | R/W | - |
| 7 | R/G | - |
| 24 | L | - |

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INTERIOR ROOM LAMP CONTROL SYSTEM

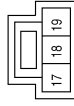
< WIRING DIAGRAM >

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



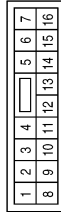
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/G | - |
| 2 | R/W | - |

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



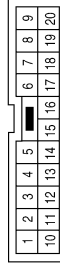
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 17 | B | GND |

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



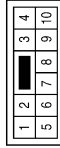
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------------|
| 4 | L | LOCK |
| 6 | R | UNLOCK |
| 14 | LG/W | ANTI PINCH SERIAL LINK |

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



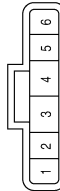
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | L | - |
| 5 | LG/W | - |
| 6 | R/W | - |
| 7 | R/G | - |

| | |
|-----------------|--------------|
| Connector No. | D101 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | B | - |

| | |
|-----------------|-----------------------------|
| Connector No. | D14 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY LH |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 5 | B | - |
| 6 | R | - |

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INTERIOR ROOM LAMP CONTROL SYSTEM

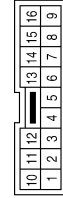
< WIRING DIAGRAM >

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



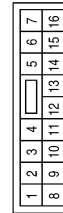
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/G | - |
| 2 | R/W | - |

| | |
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| Connector No. | D107 |
| Connector Name | DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |



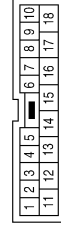
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | R/G | - |
| 13 | L | - |

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| Connector No. | D105 |
| Connector Name | POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------------|
| 11 | B | GND |
| 16 | LG/W | ANTI-PINCH SERIAL LINK |

| | |
|-----------------|--------------|
| Connector No. | D301 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



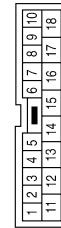
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/W | - |
| 10 | R/G | - |

| | |
|-----------------|-------------------|
| Connector No. | D206 |
| Connector Name | REAR STEP LAMP LH |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | D201 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



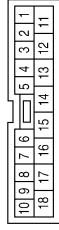
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/W | - |
| 10 | R/G | - |

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INTERIOR ROOM LAMP CONTROL SYSTEM

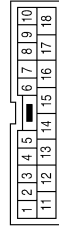
< WIRING DIAGRAM >

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| Connector No. | D405 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 14 | B | - |
| 15 | R/W | - |

| | |
|-----------------|--------------|
| Connector No. | D401 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 14 | B | - |
| 15 | R/W | - |

| | |
|-----------------|-------------------|
| Connector No. | D306 |
| Connector Name | REAR STEP LAMP RH |
| Connector Color | WHITE |



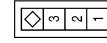
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/G | - |
| 2 | R/W | - |

| | |
|-----------------|-----------------|
| Connector No. | D503 |
| Connector Name | BACK DOOR LATCH |
| Connector Color | WHITE |



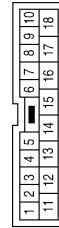
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | R/W | - |
| 8 | B | - |

| | |
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| Connector No. | D502 |
| Connector Name | BACK DOOR SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 3 | R/W | - |

| | |
|-----------------|--------------|
| Connector No. | D501 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 14 | B | - |
| 15 | R/W | - |

ABLIA4170GB

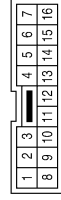
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INTERIOR ROOM LAMP CONTROL SYSTEM

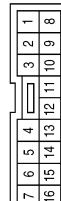
< WIRING DIAGRAM >

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| Connector No. | D701 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



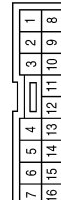
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|--------------|----|---------------|----|-------------|---|
| Terminal No. | 13 | Color of Wire | GR | Signal Name | - |
|--------------|----|---------------|----|-------------|---|

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| Connector No. | D606 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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| Terminal No. | 13 | Color of Wire | GR | Signal Name | - |
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| Connector No. | D602 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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|--------------|----|---------------|----|-------------|---|
| Terminal No. | 13 | Color of Wire | GR | Signal Name | - |
|--------------|----|---------------|----|-------------|---|

| | |
|-----------------|-------------------------|
| Connector No. | D707 |
| Connector Name | GLASS HATCH AJAR SWITCH |
| Connector Color | BLACK |



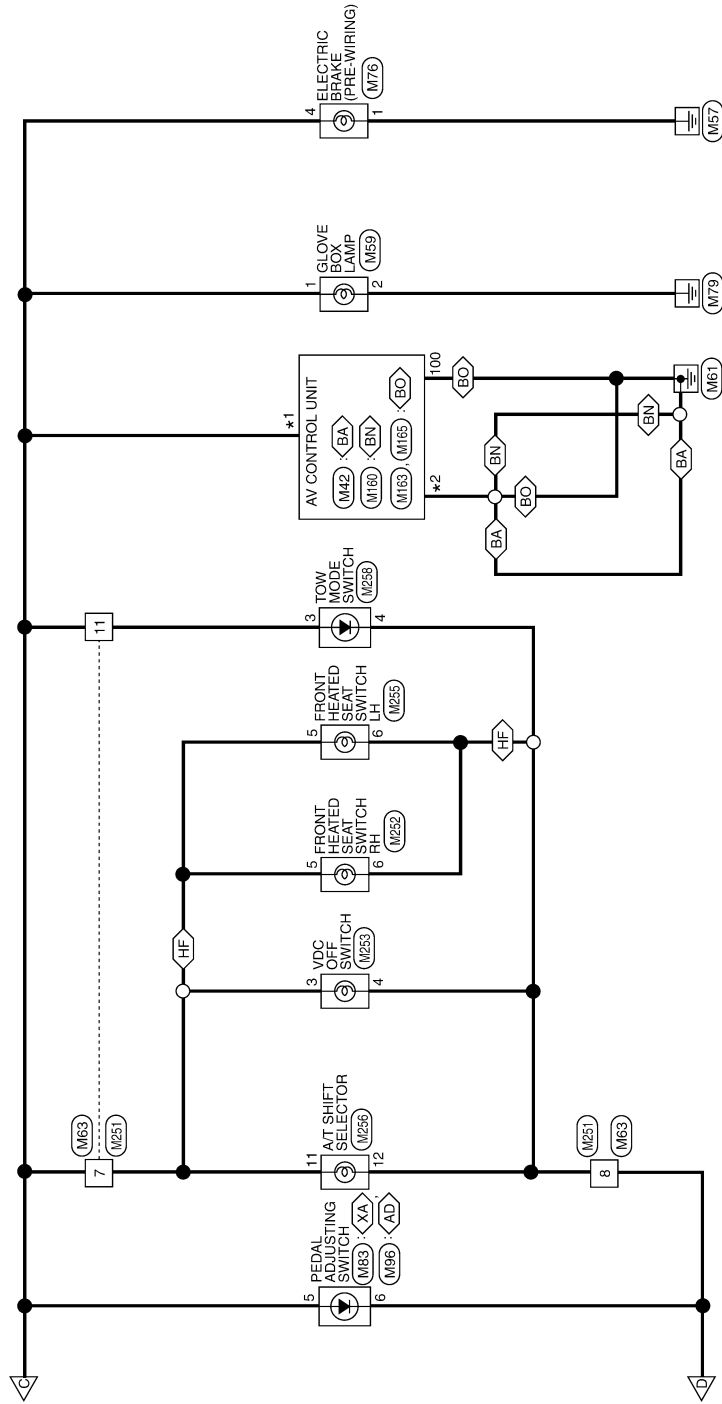
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| Terminal No. | 1 | Color of Wire | GR | Signal Name | - |
|--------------|---|---------------|----|-------------|---|

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ILLUMINATION

< WIRING DIAGRAM >

- <AD> : WITH AUTOMATIC DRIVE POSITIONER
- <BA> : WITH BASE AUDIO SYSTEM
- <BN> : WITH BOSE AUDIO SYSTEM WITHOUT NAVI
- <BO> : WITH BOSE AUDIO SYSTEM WITH NAVI
- <HF> : WITH FRONT HEATED SEATS
- <XA> : WITHOUT AUTOMATIC DRIVE POSITIONER
- <BA> : 20
- <BN> : 9
- <BO> : 67
- *1 : <BA> : 9 <BN> : 20
- <BN> : 9 <BO> : 93



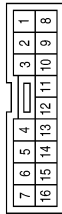
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ILLUMINATION CONNECTORS

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



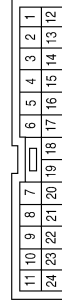
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | BR | - |
| 11 | R/L | - |

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



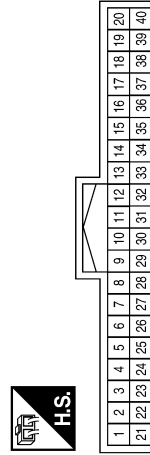
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5P | O/L | - |

| | |
|-----------------|--------------|
| Connector No. | M9 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



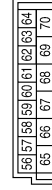
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 22 | R/L | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | SB | INPUT 5 |
| 3 | G/Y | INPUT 4 |
| 4 | Y | INPUT 3 |
| 5 | G/B | INPUT 2 |
| 6 | V | INPUT 1 |
| 32 | R/G | OUTPUT 5 |
| 33 | R/Y | OUTPUT 4 |
| 34 | L | OUTPUT 3 |
| 35 | O/B | OUTPUT 2 |
| 36 | R/W | OUTPUT 1 |
| 38 | W/L | IGN SW |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

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

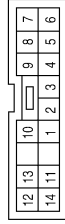


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 67 | B | GND (POWER) |
| 70 | W/B | BAT (F/L) |

ILLUMINATION

< WIRING DIAGRAM >

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



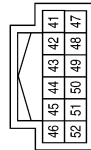
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R/W | - |
| 2 | O/B | - |
| 3 | L | - |
| 4 | R/Y | - |
| 5 | R/G | - |
| 6 | V | - |
| 7 | G/B | - |
| 8 | SB | - |
| 9 | G/Y | - |
| 10 | Y | - |

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



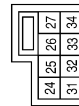
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | Y/R | BATTERY |
| 9 | B | GND |
| 11 | L | CAN-H |
| 12 | P | CAN-L |
| 24 | O/L | RUN/START |

| | |
|-----------------|-------------------|
| Connector No. | M23 |
| Connector Name | COMBINATION METER |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------------|
| 50 | BR | ILL LED CON OUTPUT |
| 52 | B | ILL GND |

| | |
|-----------------|--------------------|
| Connector No. | M30 |
| Connector Name | COMBINATION SWITCH |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 33 | BR | - |
| 34 | Y | - |

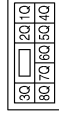
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ILLUMINATION

< WIRING DIAGRAM >

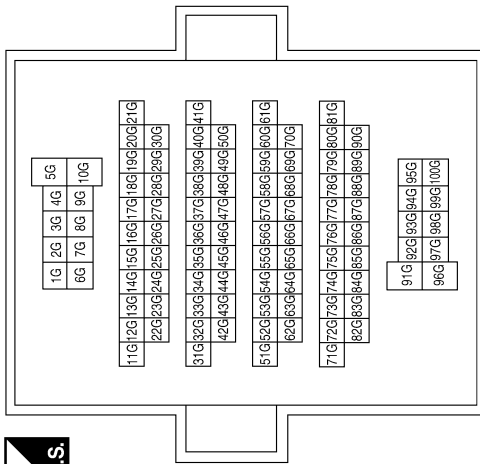
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| Connector No. | M39 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4Q | Y/R | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 31G | L | - |
| 32G | P | - |
| 47G | R/L | - |
| 96G | W/B | - |
| 99G | W/L | - |

| | |
|-----------------|--------------|
| Connector No. | M31 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

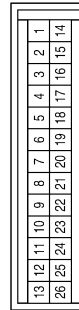


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| Connector No. | M55 |
| Connector Name | HAZARD SWITCH |
| Connector Color | WHITE |



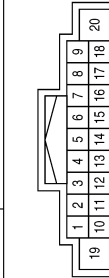
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R/L | - |
| 4 | BR | - |

| | |
|-----------------|---------------|
| Connector No. | M49 |
| Connector Name | A/C AUTO AMP. |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | R/L | ILL+ |
| 9 | BR | ILL- |

| | |
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| Connector No. | M42 |
| Connector Name | AV CONTROL UNIT (WITH BASE AUDIO SYSTEM) |
| Connector Color | WHITE |



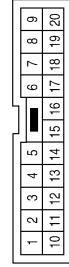
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/L | ILL |
| 20 | B | GND |

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ILLUMINATION

< WIRING DIAGRAM >

| | |
|-----------------|--------------|
| Connector No. | M63 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



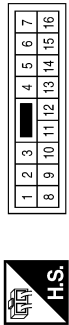
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | R/L | - |
| 8 | BR | - |
| 11 | R/L | - |
| 17 | BR | - |
| 18 | R/L | - |

| | |
|-----------------|----------------|
| Connector No. | M59 |
| Connector Name | GLOVE BOX LAMP |
| Connector Color | BROWN |



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

| | |
|-----------------|--------------|
| Connector No. | M56 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/L | - |
| 14 | B | - |

| | |
|-----------------|---|
| Connector No. | M83 |
| Connector Name | PEDAL ADJUSTING SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BROWN |



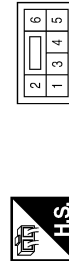
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R/L | - |
| 6 | BR | - |

| | |
|-----------------|----------|
| Connector No. | M80 |
| Connector Name | RESISTOR |
| Connector Color | BLACK |



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

| | |
|-----------------|-----------------------------|
| Connector No. | M76 |
| Connector Name | ELECTRIC BRAKE (PRE-WIRING) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 4 | R/L | - |

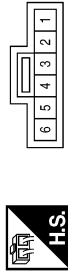
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ILLUMINATION

< WIRING DIAGRAM >

| | |
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| Connector No. | M92 |
| Connector Name | POWER LIFTGATE SWITCH |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R/L | - |
| 4 | BR | - |

| | |
|-----------------|-------------------------------|
| Connector No. | M95 |
| Connector Name | REAR POWER VENT WINDOW SWITCH |
| Connector Color | WHITE |



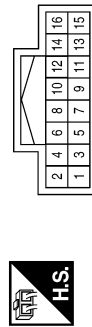
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R/L | - |
| 6 | BR | - |

| | |
|-----------------|--|
| Connector No. | M96 |
| Connector Name | PEDAL ADJUSTING SWITCH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R/L | - |
| 6 | BR | - |

| | |
|-----------------|----------------------------|
| Connector No. | M98 |
| Connector Name | A/C AND AV SWITCH ASSEMBLY |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R/L | - |
| 4 | BR | - |

| | |
|-----------------|--------------------|
| Connector No. | M102 |
| Connector Name | COMBINATION SWITCH |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 18 | O | - |
| 21 | L | - |

| | |
|-----------------|-------------------------|
| Connector No. | M116 |
| Connector Name | SONAR SYSTEM OFF SWITCH |
| Connector Color | GRAY |



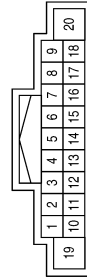
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R/L | - |
| 4 | BR | - |

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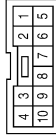
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| Connector No. | M160 |
| Connector Name | AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM, WITHOUT NAVI) |
| Connector Color | WHITE |



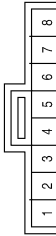
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/L | ILL |
| 20 | B | GND |

| | |
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| Connector No. | M158 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



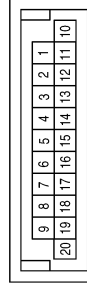
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | BR | - |

| | |
|-----------------|------------------|
| Connector No. | M141 |
| Connector Name | 4WD SHIFT SWITCH |
| Connector Color | GRAY |



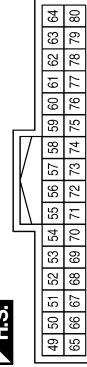
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | R/L | - |
| 8 | BR | - |

| | |
|-----------------|---------------------|
| Connector No. | M175 |
| Connector Name | JOINT CONNECTOR-M10 |
| Connector Color | BLUE |



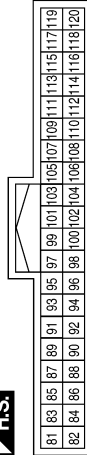
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 6 | L | - |
| 10 | P | - |
| 15 | P | - |

| | |
|-----------------|--|
| Connector No. | M165 |
| Connector Name | AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITH NAVI) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 67 | R/L | MR OUTPUT |

| | |
|-----------------|--|
| Connector No. | M163 |
| Connector Name | AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITH NAVI) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 93 | B | GND |
| 100 | B | GND |

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ILLUMINATION

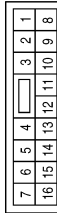
< WIRING DIAGRAM >

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| Connector No. | M211 |
| Connector Name | SECOND ROW HEATED SEAT SWITCH LH |
| Connector Color | WHITE |



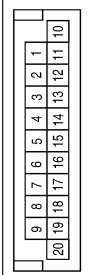
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R/L | - |
| 6 | B | - |

| | |
|-----------------|--------------|
| Connector No. | M201 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/L | - |
| 14 | B | - |

| | |
|-----------------|---------------------|
| Connector No. | M176 |
| Connector Name | JOINT CONNECTOR-M11 |
| Connector Color | BLUE |



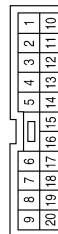
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L | - |
| 4 | L | - |
| 10 | P | - |
| 11 | P | - |
| 13 | P | - |

| | |
|-----------------|-----------------------------|
| Connector No. | M252 |
| Connector Name | FRONT HEATED SEAT SWITCH RH |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R/L | - |
| 6 | BR | - |

| | |
|-----------------|--------------|
| Connector No. | M251 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | R/L | - |
| 8 | BR | - |
| 11 | R/L | - |
| 17 | BR | - |
| 18 | R/L | - |

| | |
|-----------------|----------------------------------|
| Connector No. | M212 |
| Connector Name | SECOND ROW HEATED SEAT SWITCH RH |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R/L | - |
| 6 | B | - |

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ILLUMINATION

< WIRING DIAGRAM >

| | |
|-----------------|--------------------|
| Connector No. | M256 |
| Connector Name | A/T SHIFT SELECTOR |
| Connector Color | BLACK |



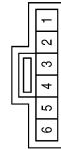
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 11 | R/L | - |
| 12 | BR | - |

| | |
|-----------------|-----------------------------|
| Connector No. | M255 |
| Connector Name | FRONT HEATED SEAT SWITCH LH |
| Connector Color | WHITE |



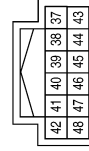
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R/L | - |
| 6 | BR | - |

| | |
|-----------------|----------------|
| Connector No. | M253 |
| Connector Name | VDC OFF SWITCH |
| Connector Color | GRAY |



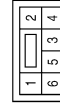
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R/L | - |
| 4 | BR | - |

| | |
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| Connector No. | E122 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



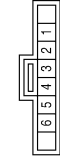
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 38 | B | GND (SIGNAL) |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|-----------------|------------------------------|
| Connector No. | M260 |
| Connector Name | HEATED STEERING WHEEL SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R/L | - |
| 4 | BR | - |

| | |
|-----------------|-----------------|
| Connector No. | M258 |
| Connector Name | TOW MODE SWITCH |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R/L | - |
| 4 | BR | - |

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| Connector No. | E123 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | BROWN |



| | | |
|----|----|----|
| 51 | 50 | 49 |
| 56 | 55 | 54 |
| 53 | 52 | |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 49 | R/L | ILLUMINATION |

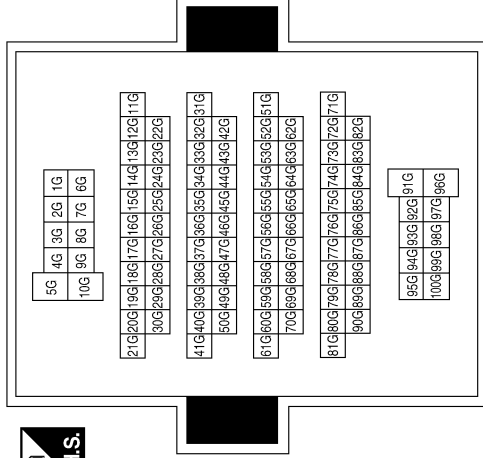
| | |
|-----------------|--|
| Connector No. | E124 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | BLACK |



| | | |
|----|----|----|
| 59 | 58 | 57 |
| 62 | 61 | 60 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 59 | B | GND (POWER) |

| | |
|-----------------|--------------|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 31G | L | - |
| 32G | P | - |
| 47G | R/L | - |
| 96G | W/B | - |
| 99G | L/W | - |

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



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | BR | - |
| 11 | R/L | - |

| | |
|-----------------|--------------|
| Connector No. | R6 |
| 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 |
|--------------|---------------|-------------|
| 11 | R/L | - |
| 13 | BR | - |

| | |
|-----------------|--------------|
| Connector No. | R101 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



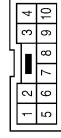
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|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | | | | | |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 11 | R/L | - |
| 13 | BR | - |

ILLUMINATION

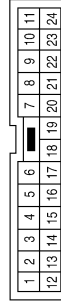
< WIRING DIAGRAM >

| | |
|-----------------|--------------|
| Connector No. | D3 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



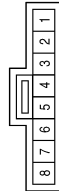
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|--------------|---|---------------|----|-------------|---|
| Terminal No. | 4 | Color of Wire | BR | Signal Name | - |
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| | |
|-----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



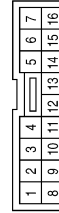
| | | | | | |
|--------------|----|---------------|-----|-------------|---|
| Terminal No. | 22 | Color of Wire | R/L | Signal Name | - |
|--------------|----|---------------|-----|-------------|---|

| | |
|-----------------|------------------------------|
| Connector No. | R102 |
| Connector Name | FRONT ROOM/MAP LAMP ASSEMBLY |
| Connector Color | GRAY |



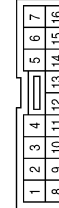
| | | | | | |
|--------------|----|---------------|-----|-------------|---|
| Terminal No. | 7 | Color of Wire | R/L | Signal Name | - |
| 8 | BR | | | | - |

| | |
|-----------------|--|
| Connector No. | D13 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER) |
| Connector Color | WHITE |



| | | | | | |
|--------------|-----|---------------|----|-------------|---|
| Terminal No. | 8 | Color of Wire | BR | Signal Name | - |
| 9 | R/L | | | | - |

| | |
|-----------------|---|
| Connector No. | D10 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER) |
| Connector Color | BROWN |



| | | | | | |
|--------------|-----|---------------|----|-------------|---|
| Terminal No. | 8 | Color of Wire | BR | Signal Name | - |
| 9 | R/L | | | | - |

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INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000009822401

CAUTION:

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

| Symptom | Possible cause | Inspection item |
|---|--|--|
| All of the following lamps do not turn ON <ul style="list-style-type: none"> • Front room/map lamp assembly • Personal lamp 2nd and 3rd row • Cargo room lamp • Front and rear step lamps • Vanity mirror lamps • Ignition keyhole illumination • Puddle lamps (if equipped) • Foot lamps (if equipped) | <ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM | Battery saver output/power supply circuit Refer to INL-16 . |
| Some or all of the following interior room lamps do not turn ON/OFF <ul style="list-style-type: none"> • Puddle lamps (if equipped) • Front room/map lamp assembly • Personal lamp 2nd row • Personal lamp 3rd row | <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-74 (with Intelligent Key) or DLK-271 (without Intelligent Key). Interior room lamp control circuit Refer to INL-19 . |
| Some or all of the following lamps do not turn ON/OFF <ul style="list-style-type: none"> • Front step lamps • Rear step lamps • Foot lamps (if equipped) | <ul style="list-style-type: none"> • Harness between BCM and step lamps and foot lamps • BCM | Step lamp circuit Refer to INL-22 . |
| Cargo lamp does not turn ON/OFF | <ul style="list-style-type: none"> • Harness between BCM and cargo lamp • BCM | Cargo lamp control circuit Refer to INL-24 . |
| Ignition keyhole illumination does not turn ON/OFF | <ul style="list-style-type: none"> • Harness between BCM and ignition keyhole illumination • BCM | Ignition keyhole illumination control circuit Refer to INL-26 |
| Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.) | — | Check the interior room lamp setting. Refer to BCS-18 . |
| Interior room lamp battery saver does not activate. | — | Check the interior room lamp battery saver setting. Refer to BCS-18 . |

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000009822402

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.

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000009822403

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.

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PRECAUTIONS

< PRECAUTION >

5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT.

Precaution for Work

INFOID:000000009822404

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

PREPARATION

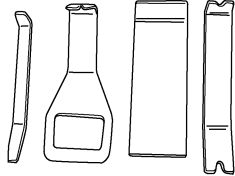
PREPARATION

Special Service Tool

INFOID:000000009822405

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

| Tool number (Kent-Moore No.) Tool name | Description |
|--|--------------------------|
| — (J-46534) Trim tool set | Removing trim components |



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INL

INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

INTERIOR ROOM LAMP

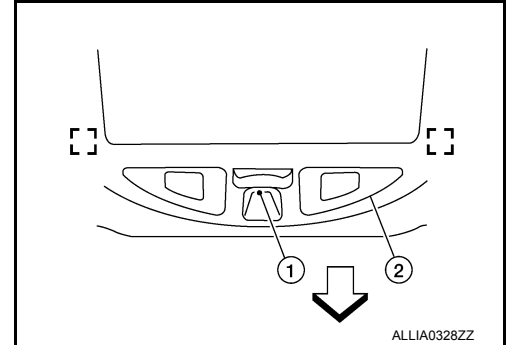
Removal and Installation

INFOID:000000009822406

FRONT ROOM/MAP LAMP

The front room/map lamp assembly (2) and console illumination lamp (1) is replaced with the overhead console. Refer to [INT-21, "Removal and Installation"](#).

↔: Front



Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

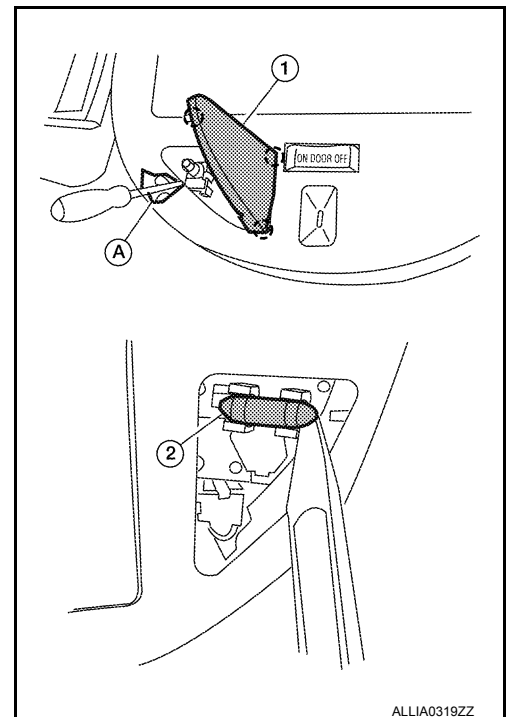
- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Using a suitable tool (A), remove front room/map lamp lens (1).
○: Pawl
2. Release one side of the bulb (2) from the tab, then pull straight downward to remove.

CAUTION:

Wrap a cloth around tool to protect the housing and lens.

3. Install the bulb (2).
4. Install front room/map lamp lens (1).



VANITY MIRROR LAMP

Removal and Installation

The vanity mirror lamp is replaced as part of the sun visor assembly. Refer to [INT-21, "Removal and Installation"](#).

Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Using a suitable tool (A), release the tabs and remove the vanity mirror lamp lens (1).

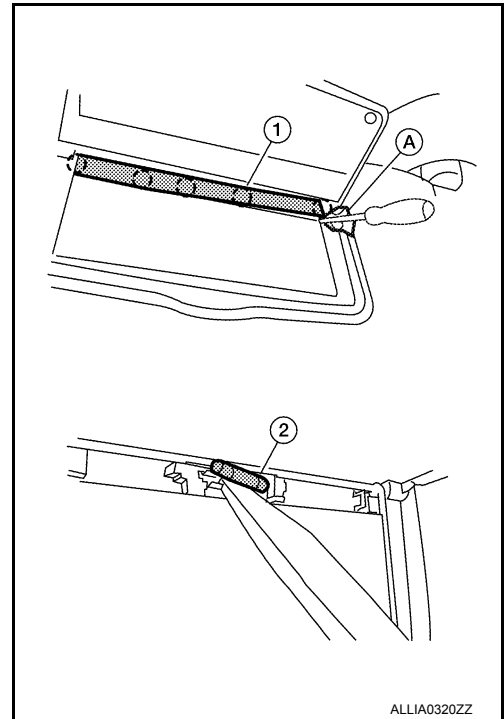
○: Pawl

2. Release one side of the bulb (2) from the tab, then pull straight out to remove.

CAUTION:

Wrap a cloth around tool to protect the housing and lens.

3. Install the bulb (2).
4. Install the vanity mirror lamp lens (1).



GLOVE BOX LAMP

Removal

1. Remove instrument lower panel RH and glove box. Refer to [IP-17, "Removal and Installation"](#).
2. Rotate glove box lamp socket counterclockwise to release from steering member.

Installation

Installation is in the reverse order of removal.

Bulb Replacement

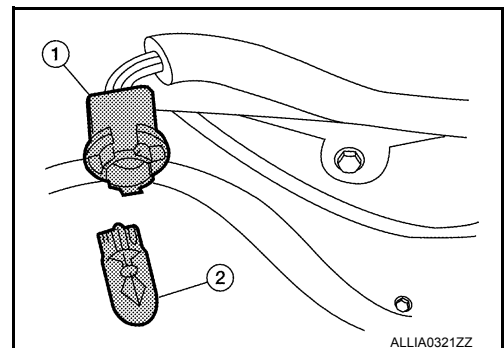
WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Remove instrument lower panel RH and glove box. Refer to [IP-17, "Removal and Installation"](#).
2. Pull bulb (2) straight out from glove box lamp socket (1) to remove.
3. Install the bulb (2) to glove box lamp socket (1).
4. Install instrument lower panel RH and glove box. Refer to [IP-17, "Removal and Installation"](#).

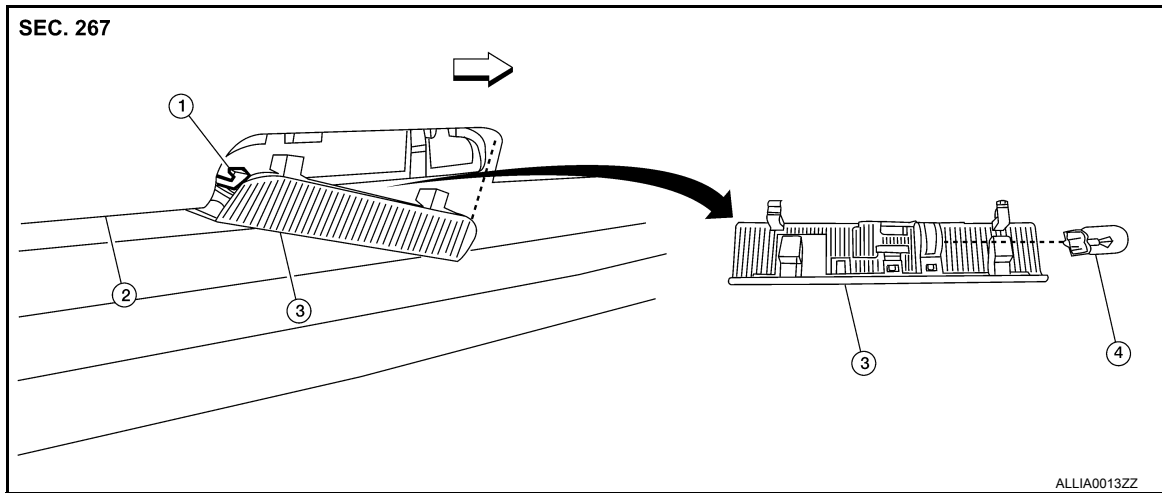


STEP LAMP

INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

Removal



1. Step lamp connector 2. Door finisher 3. Step lamp lens/socket
4. Step lamp bulb ↵ Front

1. Insert a suitable tool between door finisher and step lamp lens/socket to release the pawls.
2. Disconnect the harness connector from step lamp and remove.

Installation

Installation is in the reverse order of removal.

Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Remove the step lamp lens/socket.
2. Pull the bulb straight out to remove.
3. Install the bulb to the step lamp.
4. Install the step lamp lens/socket.

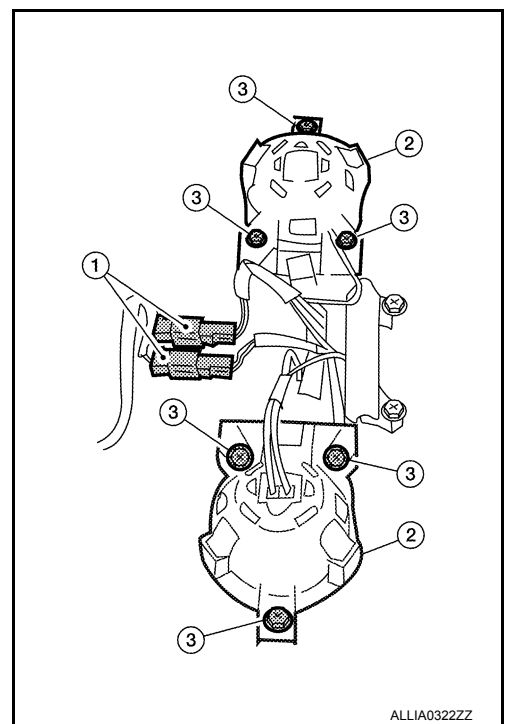
PERSONAL LAMP

Removal

INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

1. Remove overhead console. Refer to [INT-21, "Removal and Installation"](#).
2. Remove personal lamp screws (3).
3. Disconnect personal lamp harness connectors (1), then remove personal lamps (2) from overhead console.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Using a suitable tool (A), release the pawls and remove personal lamp lens (1).

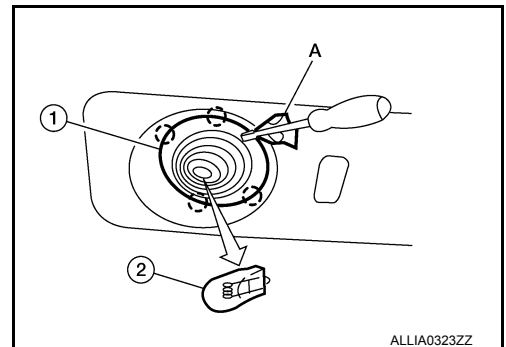
○: Pawl

2. Pull bulb (2) straight out to remove.

CAUTION:

Wrap a cloth around tool to protect the housing and lens.

3. Install the bulb (2) to personal lamp.
4. Install personal lamp lens (1).



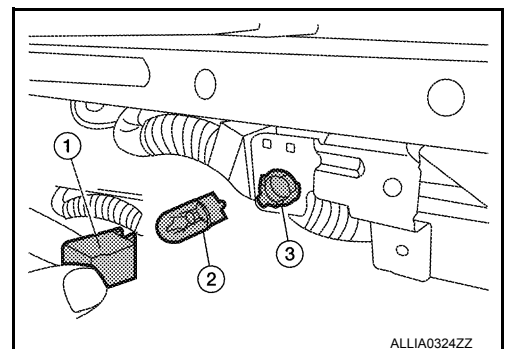
FOOT LAMP

Removal

Rotate foot lamp socket (3) counterclockwise to remove from bracket.

(1): Bulb shield

(2): Bulb



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INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

Installation

Installation is in the reverse order of removal.

Bulb Replacement

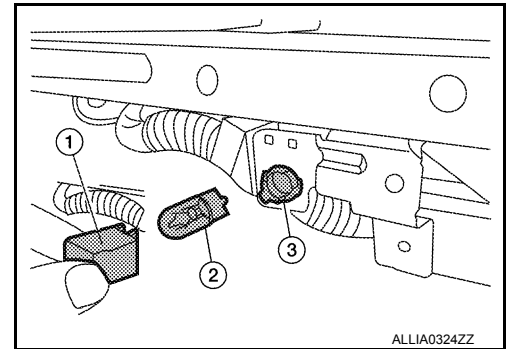
WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- **Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.**
- **Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

1. Release the pawls and remove bulb shield (1) from bracket.
2. Pull bulb (2) straight out from foot lamp socket (3) to remove.
3. Install bulb (2) to foot lamp socket (3).
4. Install bulb shield (1) to bracket.



ILLUMINATION

< REMOVAL AND INSTALLATION >

ILLUMINATION

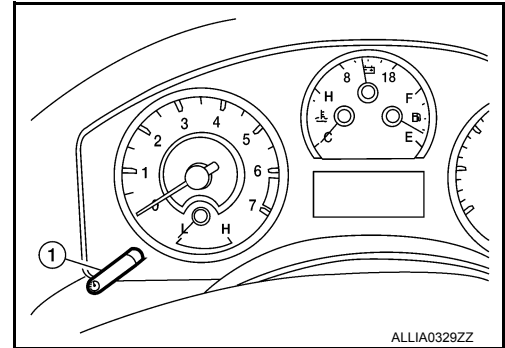
Removal and Installation

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ILLUMINATION CONTROL SWITCH

Removal and Installation

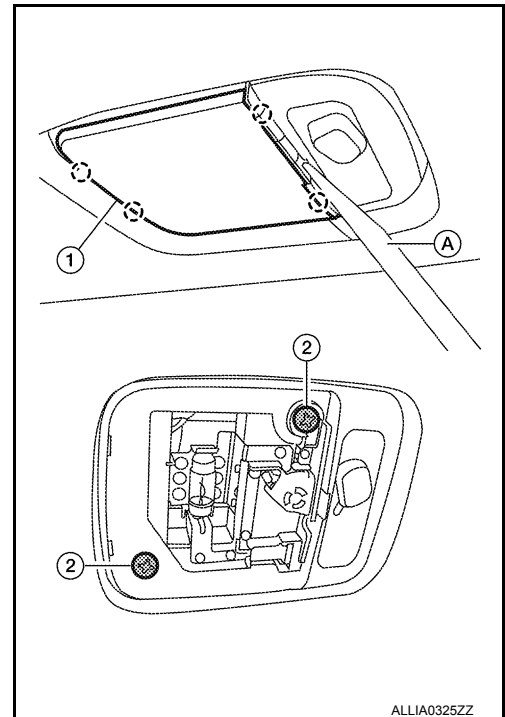
The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to [MWI-98, "Removal and Installation"](#).



CARGO LAMP

Removal

1. Using a suitable tool (A), release the pawls and remove the cargo lamp lens (1).
○: Pawl
2. Remove cargo lamp screws (2).
3. Disconnect the harness connector from the cargo lamp and remove.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

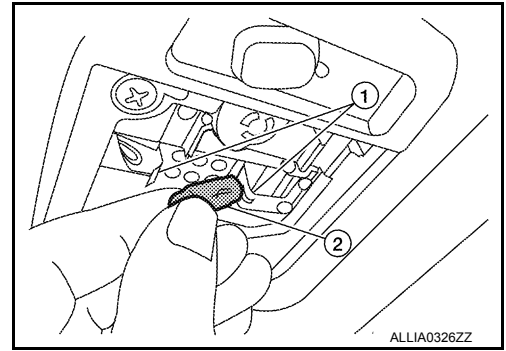
CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

ILLUMINATION

< REMOVAL AND INSTALLATION >

1. Using a suitable tool, release the pawls and remove the cargo lamp lens.
2. Release the cargo lamp bulb retainers (1), then pull bulb (2) straight out to remove.
3. Install the bulb (2) to cargo lamp bulb retainers (1).
4. Install cargo lamp lens.



CONSOLE ILLUMINATION LAMP

Bulb Replacement

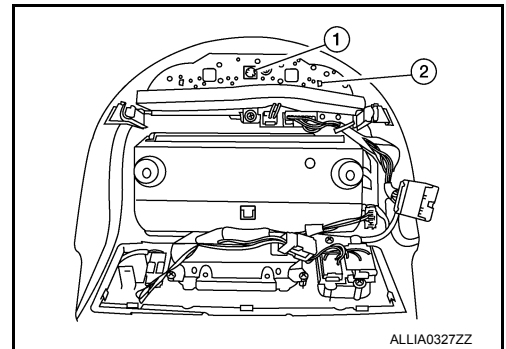
WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Remove overhead console. Refer to [INT-21. "Removal and Installation"](#).
2. Rotate console illumination lamp bulb (1) counterclockwise, then pull straight out away from front room/map lamp assembly (2) to remove.
3. Install console illumination lamp bulb (1) to front room/map lamp assembly (2).
4. Install overhead console. Refer to [INT-21. "Removal and Installation"](#).



BULB SPECIFICATIONS

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

BULB SPECIFICATIONS

Bulb Specifications

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| Item | Wattage (W)* |
|-------------------------|--------------|
| Front room/map lamp | 8 |
| Vanity mirror lamp | 1.8 |
| Glove box lamp | 3.4 |
| Step lamp | 3.8 |
| Personal lamp | 6 |
| Foot lamp (if equipped) | 3.4 |
| Cargo lamp | 8 |
| Console lamp | - |

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