

SECTION **INL**

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH POWER DOOR LOCKS]

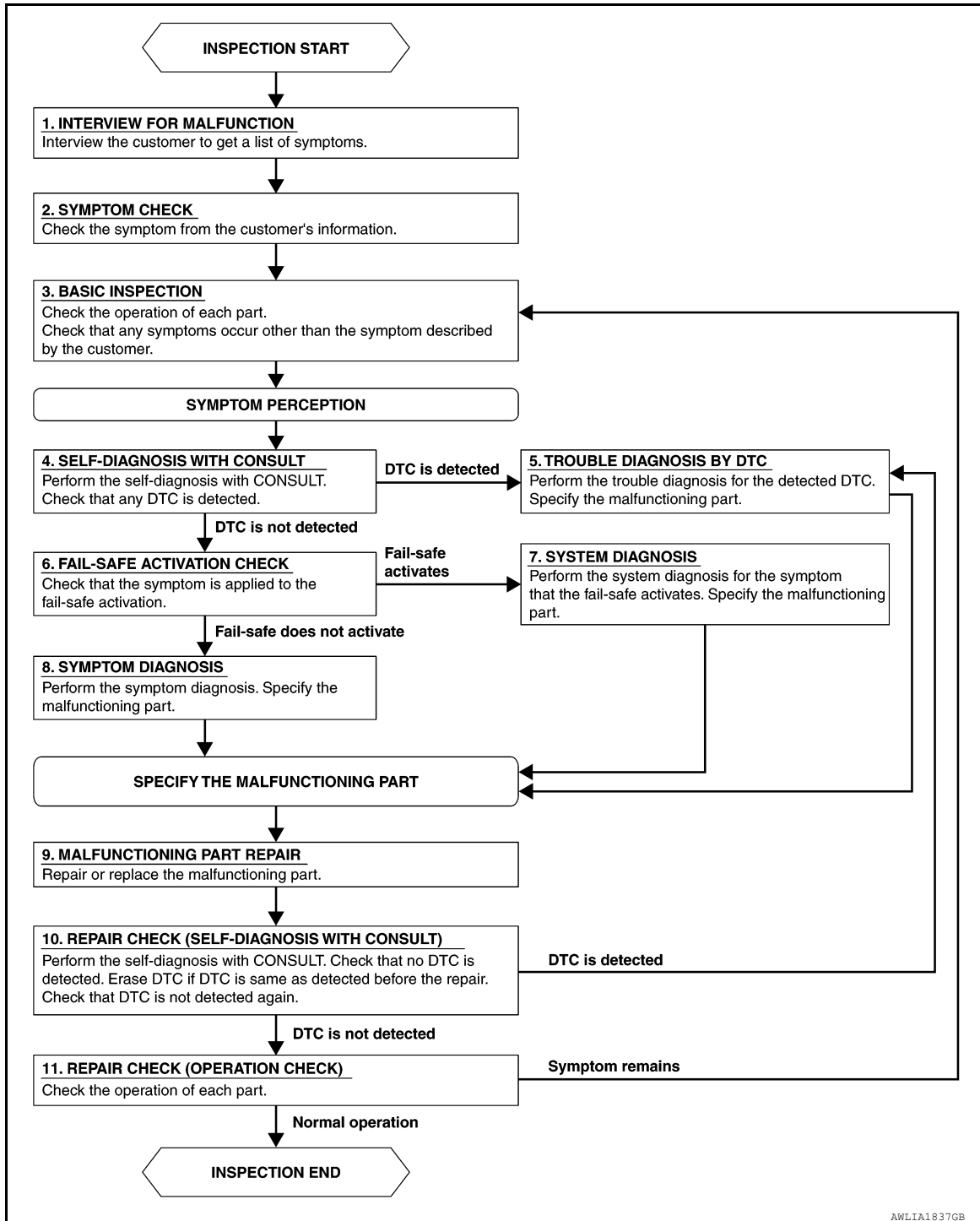
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000009480123

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH POWER DOOR LOCKS]

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. 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. Verify 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 >

[WITH POWER DOOR LOCKS]

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

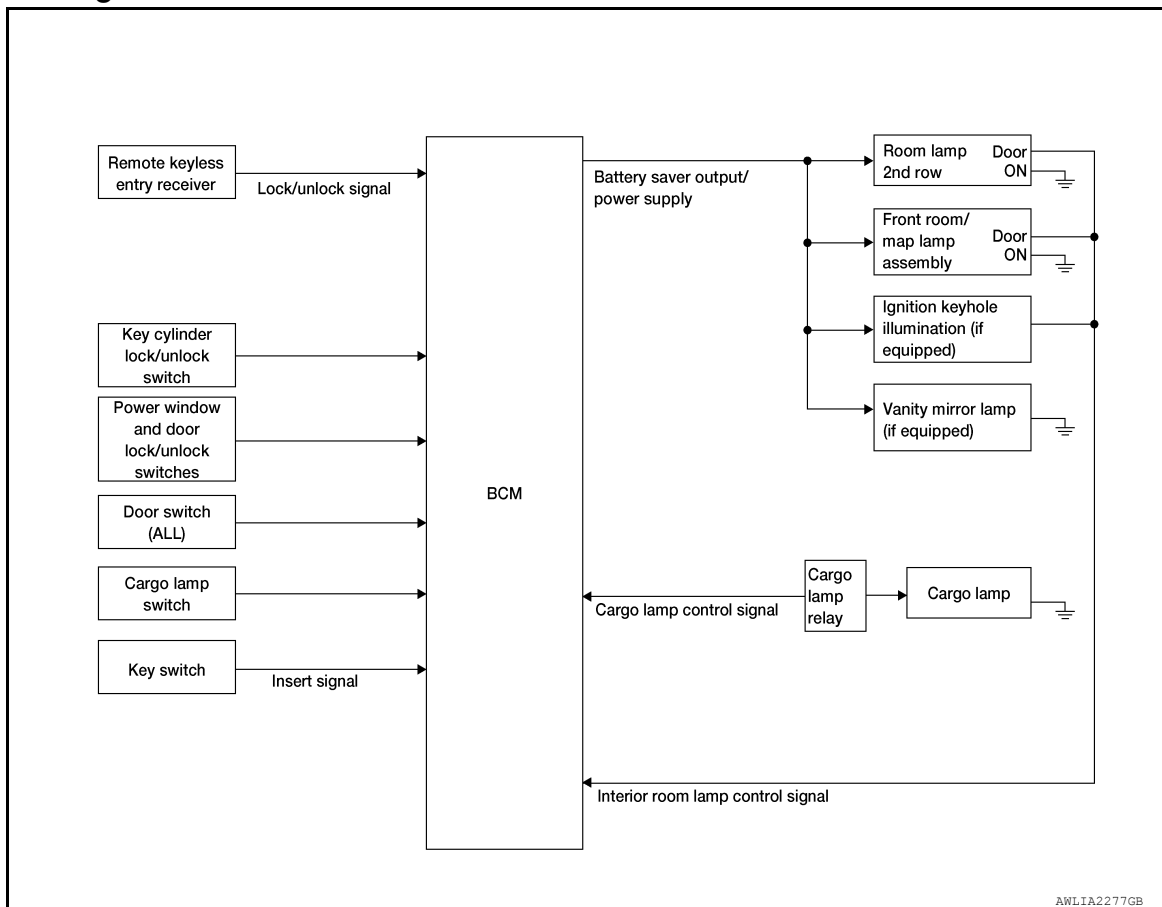
< SYSTEM DESCRIPTION >

[WITH POWER DOOR LOCKS]

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

INFOID:000000009480125

OUTLINE

- Front room/map lamp and room lamp 2nd row are controlled by the interior room lamp timer control function of the BCM.

- Cargo lamp is controlled by the cargo lamp control function of the BCM.

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 the power window and door lock/unlock switches.

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 main power window and door lock/unlock switch, or front door lock assembly LH (key cylinder switch)].
- When a door opens → closes.

Timer control is cancelled under the following conditions.

- When the front door LH is locked [with 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).
- The ignition switch is placed the ON position.

Interior lamp operational settings can be changed with the CONSULT.

INTERIOR LAMP BATTERY SAVER CONTROL

INTERIOR ROOM LAMP CONTROL SYSTEM

[WITH POWER DOOR LOCKS]

< SYSTEM DESCRIPTION >

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.

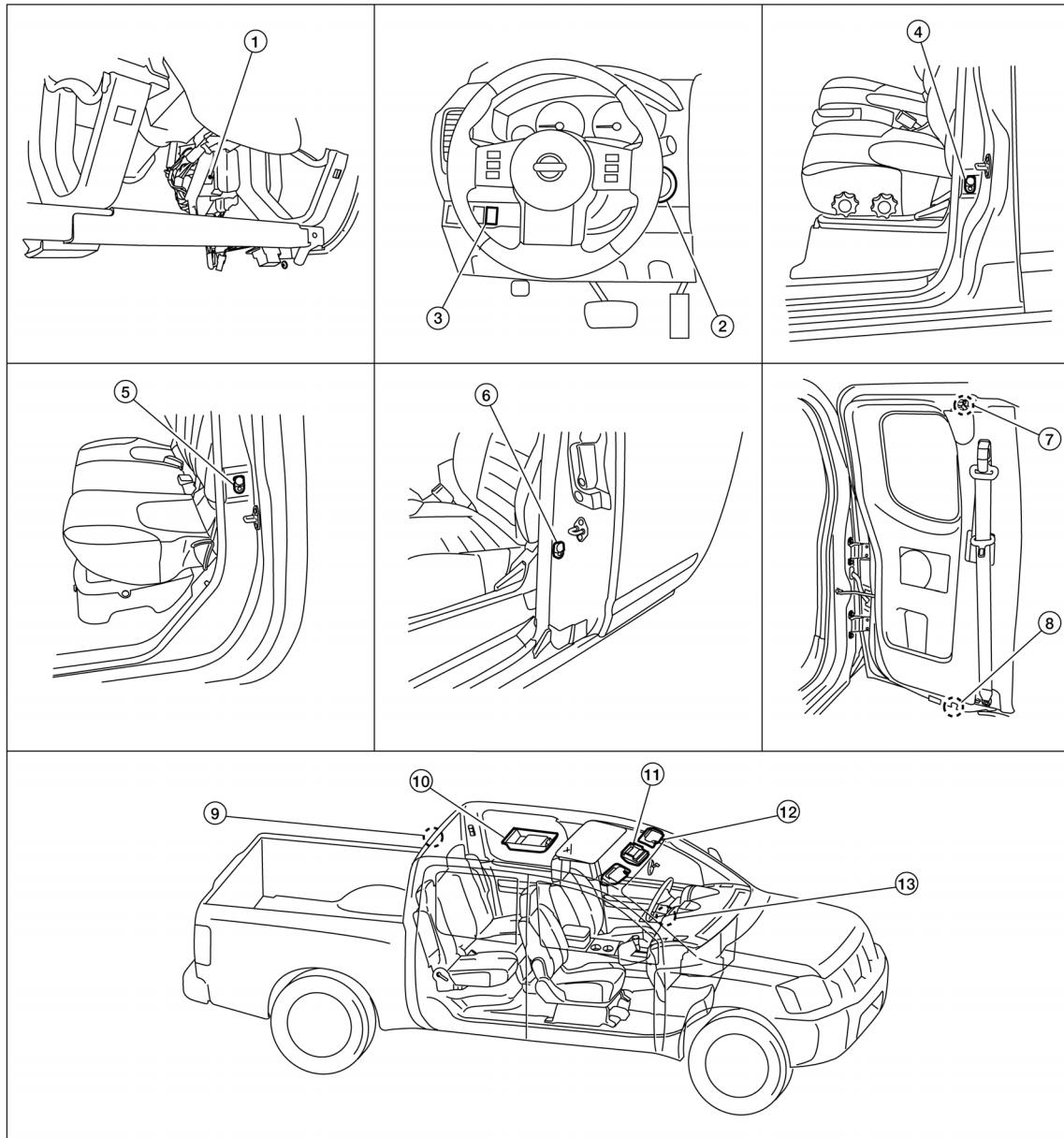
After the battery saver system turns the lamps OFF, the lamps will illuminate again when

- a signal is received from a 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 interior lamp battery saver control time period can be changed with the CONSULT.

Component Parts Location

INFOID:000000009480126



- | | | |
|---|---|---|
| 1. BCM M18, M19, M20 (view with lower instrument panel LH removed) | 2. Key switch M27 | 3. Cargo lamp switch M71 |
| 4. Front door switch LH B8 (crew cab) Front door switch RH B108 (crew cab) | 5. Rear door switch LH B18 (crew cab) Rear door switch RH B116 (crew cab) | 6. Front door switch LH D213 (king cab) Front door switch RH D314 (king cab) |
| 7. Rear door switch upper LH D211 (king cab) Rear door switch upper RH D312 (king cab) | 8. Rear door switch lower LH D212 (king cab) Rear door switch lower RH D313 (king cab) | 9. Cargo lamp B161 |

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INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[WITH POWER DOOR LOCKS]

10. Room lamp 2nd row R10 11. Front room/map lamp assembly R9 12. Vanity lamp LH B80 (if equipped)
Vanity lamp RH B81 (if equipped)
13. Ignition keyhole illumination M150 (if equipped)

Component Description

INFOID:000000009480127

| Part name | Description |
|---|--|
| BCM | Provides power and ground and controls timer functions for the interior room lamps and cargo lamp. |
| Key switch | Provides key in ignition status to the BCM. |
| Door switches | Provides door OPEN/CLOSED status to the BCM. |
| Cargo lamp switch | Provides cargo lamp ON/OFF request to the BCM. |
| Main power window and door lock/unlock switch | Provides door lock/unlock position switch status to the BCM. |
| Power window and door lock/unlock switch RH | |
| Front door lock assembly LH (key cylinder switch) | Provides door lock/unlock status to the BCM. |

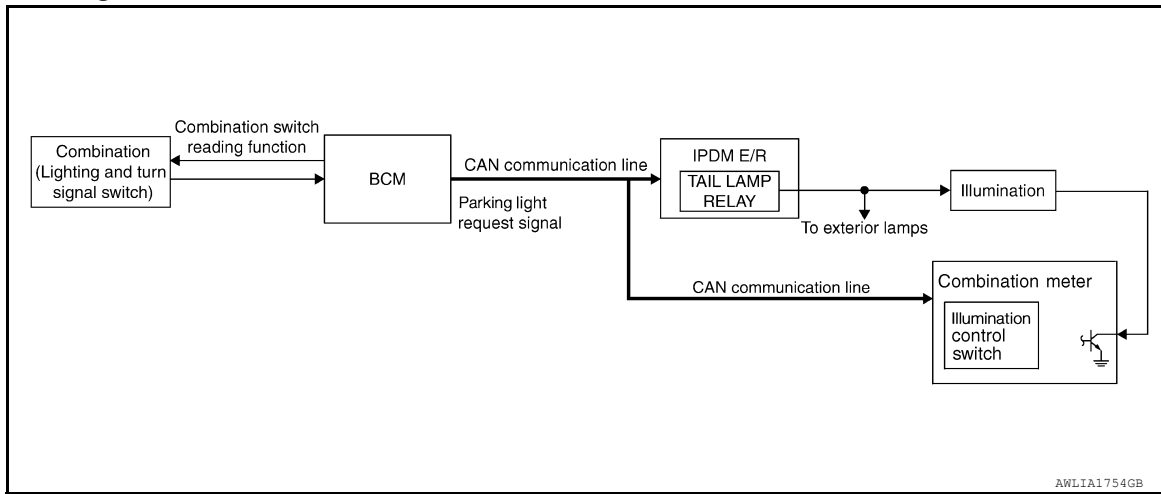
ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[WITH POWER DOOR LOCKS]

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

INFOID:000000009480129

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 second 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.

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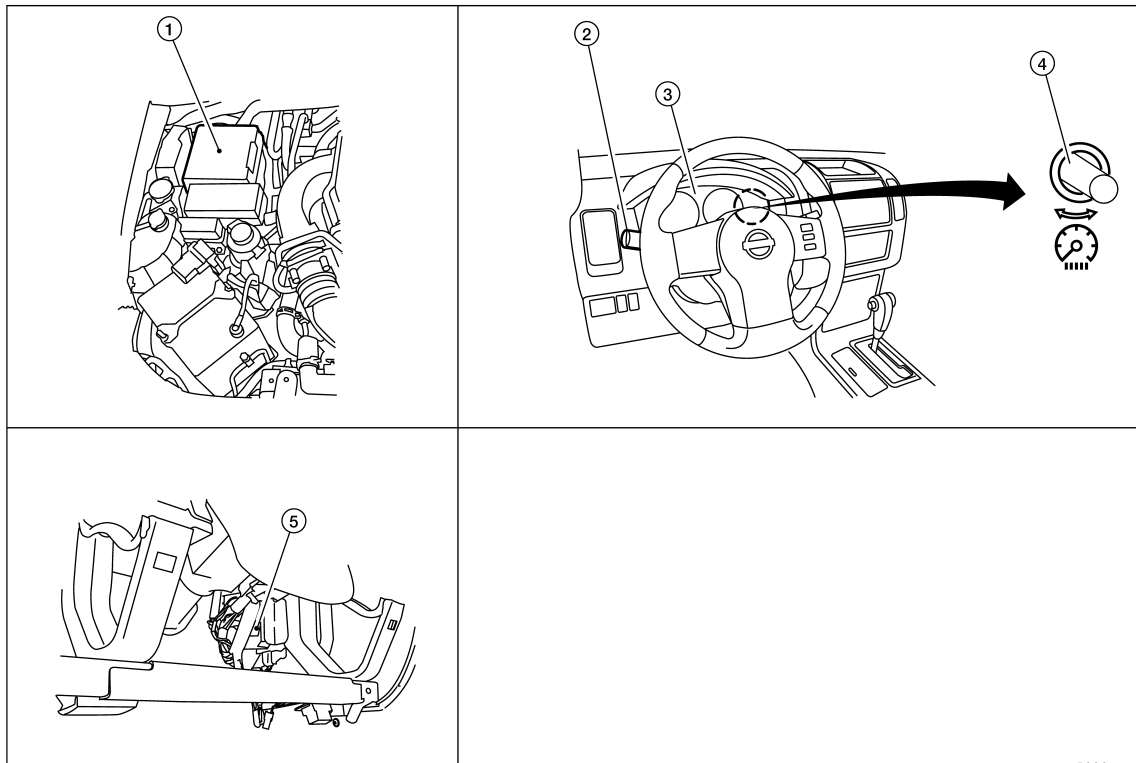
ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[WITH POWER DOOR LOCKS]

Component Parts Location

INFOID:000000009480130



WKIA5029E

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

Component Description

INFOID:000000009480131

| 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 (lighting and turn signal switch) provides input to the BCM about the lighting switch position. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH POWER DOOR LOCKS]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010228001

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 | | |
| 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 | HEAD LAMP | | | x | x | x | | |
| Wiper and washer | WIPER | | | x | x | x | | |
| Turn signal and hazard warning lamps | FLASHER | | | x | x | | | |
| Air conditioner | AIR CONDITIONER | | | 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 | | |
| 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 | | | |

INT LAMP

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH POWER DOOR LOCKS]

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000010228002

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. |
| 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. |
| KEYLESS LOCK [On/Off] | Indicates condition of lock signal from keyfob. |
| KEYLESS UNLOCK [On/Off] | Indicates condition of unlock signal from keyfob. |

ACTIVE TEST

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

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. |
| ROOM LAMP OFF TIME SET | MODE7 | 0 sec. |
| | 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:000000010228003

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH POWER DOOR LOCKS]

| 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. |
| 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. |
| KEYLESS LOCK [On/Off] | Indicates condition of lock signal from keyfob. |
| KEYLESS UNLOCK [On/Off] | Indicates condition of unlock signal from keyfob. |

ACTIVE TEST

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

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH POWER DOOR LOCKS]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000010228010

Regarding Wiring Diagram information, refer to [BCS-43, "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 | 21 (10A) |
| 70 | | G (50A) |
| 11 | Ignition ACC or ON | 4 (10A) |
| 38 | Ignition ON or START | 1 (10A) |

Is the fuse blown?

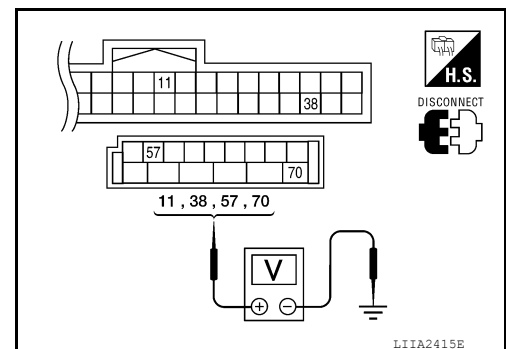
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

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 >

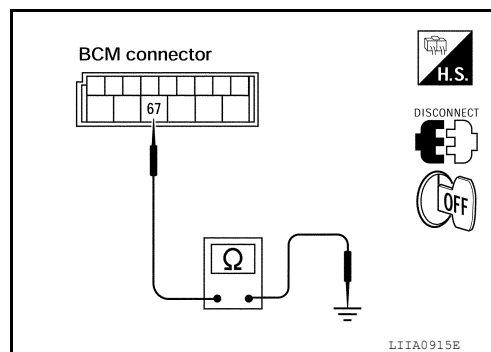
[WITH POWER DOOR LOCKS]

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 >

[WITH POWER DOOR LOCKS]

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description

INFOID:000000009480136

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:000000009480137

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 (if equipped)
 - Room lamp 2nd row
3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
4. 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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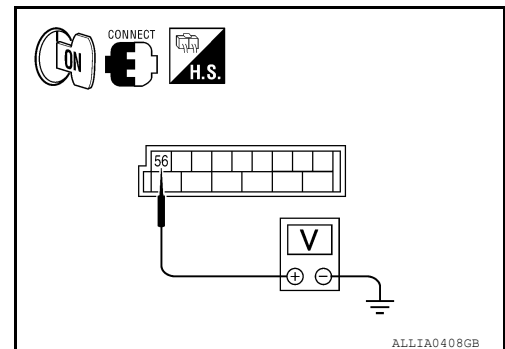
Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram - With Power Door Lock System"](#).

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.

| (+) Connector | | (-) | Test item | Voltage |
|---------------|----|--------|---------------|-----------------|
| 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 the battery saver output/power supply circuit is not shorted to voltage. Refer to [BCS-49, "Removal and Installation"](#).

2. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - BCM M20
 - Ignition keyhole illumination (if equipped)
 - Front room/map lamp assembly
 - Vanity lamp LH (if equipped)
 - Vanity lamp RH (if equipped)

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

[WITH POWER DOOR LOCKS]

< DTC/CIRCUIT DIAGNOSIS >

- Room lamp 2nd 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 (if equipped) | M150 | 1 | Yes |
| | | Front room/map lamp assembly | R9 | 1 | |
| | | Vanity lamp LH (if equipped) | B80 | 1 | |
| | | Vanity lamp RH (if equipped) | B81 | 1 | |
| | | Room lamp 2nd row | R10 | 2 | |

Is the inspection result normal?

- YES >> GO TO 3
- NO >> Repair the harness or connectors.

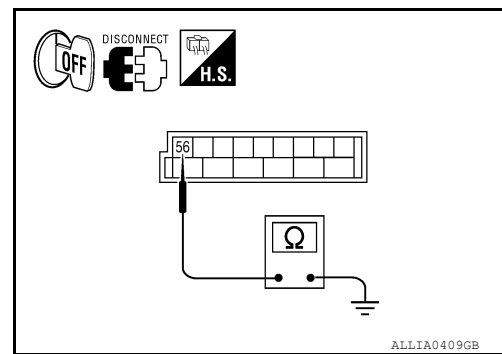
3. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM connector M20 terminal 56 and ground.

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

Is the inspection result normal?

- YES >> Replace the interior room lamp. Refer to [INL-63](#).
"Removal and Installation".
- NO >> Repair the harness or connectors.



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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH POWER DOOR LOCKS]

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000009480139

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

- Front room/map lamp assembly
- Room lamp 2nd row

NOTE:

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

Component Function Check

INFOID:000000009480140

CAUTION:

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

- Battery saver output/power supply
- Front room/map lamp bulbs (if equipped)
- Room lamp 2nd row bulb

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

Ⓜ WITH CONSULT

1. Switch the front room/map lamp assembly and room lamp 2nd row switches 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 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-18, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009480141

Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram - With Power Door Lock System"](#).

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

Ⓜ WITH CONSULT

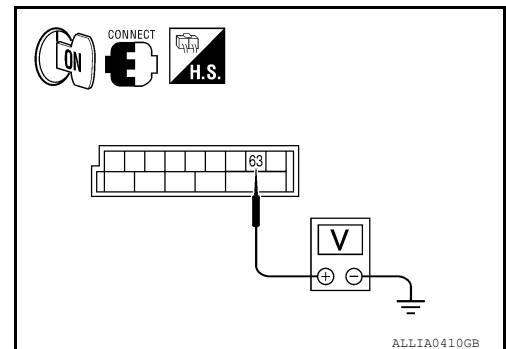
1. Turn ignition switch ON.
2. Select "INT LAMP" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M20 terminal 63 and ground.

| (+) | | (-) | 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

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT



INTERIOR ROOM LAMP CONTROL CIRCUIT

[WITH POWER DOOR LOCKS]

< DTC/CIRCUIT DIAGNOSIS >

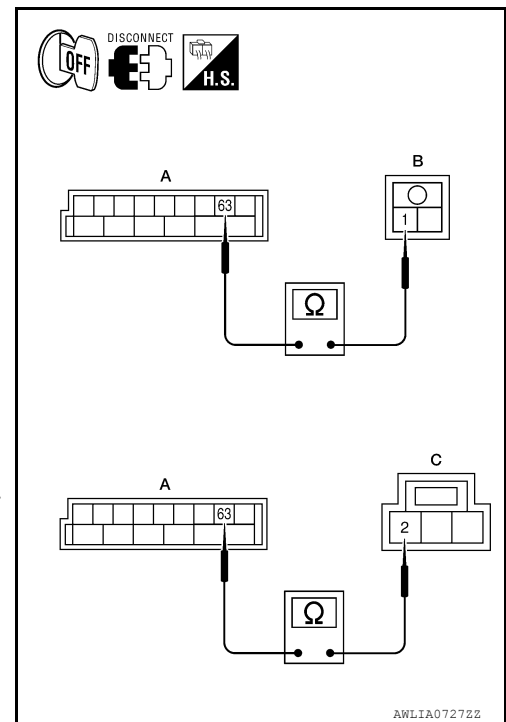
1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, room lamp 2nd row connector and front room/map lamp connector.
3. Check continuity between BCM connector M20 (A) terminal 63 and interior room lamp connectors.

| Terminal | | Terminal | | | Continuity |
|-----------|----------|---------------------|-----------|----------|------------|
| Connector | Terminal | Component | Connector | Terminal | |
| M20 (A) | 63 | Room lamp 2nd row | R10 (B) | 1 | Yes |
| | | Front room/map lamp | R9 (C) | 2 | |

Is the inspection result normal?

YES >> Check interior room lamp for an open. If OK, replace the BCM. Refer to [BCS-49, "Removal and Installation"](#). If NG, replace the interior room lamp. Refer to [INL-63, "Removal and Installation"](#).

NO >> Repair the harness or connectors.



3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

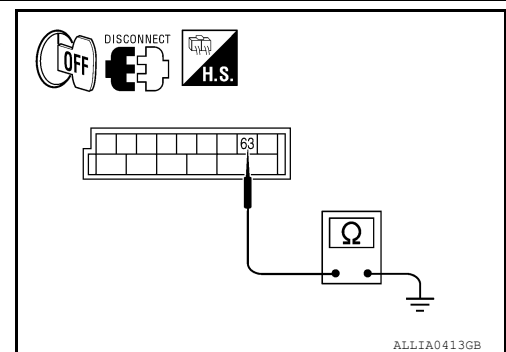
1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, room lamp 2nd row connector and front room/map lamp connector.
3. Check continuity between BCM connector M20 terminal 63 and ground.

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

Is the inspection result normal?

YES >> Check interior room lamp for a short circuit. If OK, replace the BCM. Refer to [BCS-49, "Removal and Installation"](#). If NG, replace the interior room lamp. Refer to [INL-63, "Removal and Installation"](#).

NO >> Repair the harness or connectors.



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CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH POWER DOOR LOCKS]

CARGO LAMP CONTROL CIRCUIT

Description

INFOID:000000009480142

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

Diagnosis Procedure

INFOID:000000009480143

Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram - With Power Door Lock System"](#).

CAUTION:

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

- Fuse
- Cargo lamp bulb

1. CHECK CARGO LAMP OPERATION

Check the cargo lamp operation from the cargo lamp switch, the door switches, and a keyfob (if equipped).

Is the cargo lamp operative from all of the above switches and the keyfob (if equipped)?

- YES >> At this time, the cargo lamp operates normally.
- NO >> • Inoperative from all the above switches and the keyfob, GO TO 6
- Inoperative from cargo lamp switch only, GO TO 2
 - Inoperative from door switches only, refer to [DLK-27, "KING CAB : Description"](#) (king cab), [DLK-29, "CREW CAB : Description"](#) (crew cab).
 - Inoperative from keyfob only, refer to [DLK-51, "Description"](#).
 - Fixed ON, GO TO 2

2. CHECK CARGO LAMP SWITCH

Check the cargo lamp switch. Refer to [INL-22, "Component Inspection"](#).

Is the inspection result normal?

- YES >> • For inoperative from cargo lamp switch only, GO TO 3
- For fixed ON, GO TO 5
- NO >> Replace the cargo lamp switch.

3. CHECK CARGO LAMP SWITCH CIRCUIT OPEN

1. Disconnect BCM connector M18 and cargo lamp switch connector.
2. Check continuity between BCM connector M18 terminal 31 and cargo lamp switch connector M71 terminal 1.

| BCM | | Cargo lamp switch | | Continuity |
|-----------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M18 | 31 | M71 | 1 | Yes |

Is the inspection result normal?

- YES >> GO TO 4
- NO >> Repair harness or connectors.

4. CHECK CARGO LAMP SWITCH GROUND CIRCUIT

1. Check continuity between cargo lamp switch connector M71 terminal 3 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M71 | 3 | Ground | Yes |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-49, "Removal and Installation"](#).
- NO >> Repair harness or connectors.

CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH POWER DOOR LOCKS]

5. CHECK CARGO LAMP SWITCH CIRCUIT SHORT

1. Disconnect BCM connector M18 and cargo lamp switch connector.
2. Check continuity between BCM connector M18 terminal 31 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M18 | 31 | Ground | No |

Is the inspection result normal?

- YES >> GO TO 6
 NO >> Repair harness or connectors.

6. CHECK CARGO LAMP RELAY

Check the cargo lamp relay. Refer to [INL-22. "Component Inspection"](#).

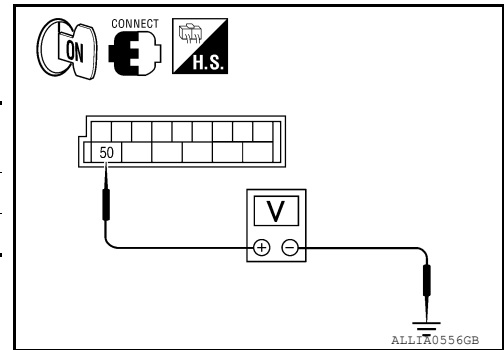
Is the inspection result normal?

- YES >> • For fixed OFF, GO TO 7
 • For fixed ON, GO TO 13
 NO >> Replace the cargo lamp relay.

7. CHECK CARGO LAMP RELAY CONTROL

While operating the cargo lamp switch, check voltage between BCM connector M19 terminal 50 and ground.

| Connector | Terminal | — | Cargo lamp switch | Voltage |
|-----------|----------|--------|-------------------|-----------------|
| M19 | 50 | Ground | ON | 0V |
| | | | OFF | Battery voltage |



Is the inspection result normal?

- YES >> GO TO 8
 NO >> GO TO 11

8. CHECK CARGO LAMP VOLTAGE

1. Disconnect the cargo lamp connector.
2. While operating the cargo lamp switch, check voltage between cargo lamp connector B161 terminal 3 and ground.

| Connector | Terminal | — | Cargo lamp switch | Voltage |
|-----------|----------|--------|-------------------|-----------------|
| B161 | 3 | Ground | ON | Battery voltage |

Is the inspection result normal?

- YES >> GO TO 9
 NO >> GO TO 10

9. CHECK CARGO LAMP GROUND CIRCUIT

1. While operating the cargo lamp switch, check voltage between cargo lamp connector B161 terminal 3 and terminal 2.

| Connector | Terminal (+) | Terminal (-) | Cargo lamp switch | Voltage |
|-----------|--------------|--------------|-------------------|-----------------|
| B161 | 3 | 2 | ON | Battery voltage |

Is the inspection result normal?

- YES >> Replace cargo lamp.
 NO >> Repair harness or connectors.

10. CHECK CARGO LAMP RELAY VOLTAGE PART 1

CARGO LAMP CONTROL CIRCUIT

[WITH POWER DOOR LOCKS]

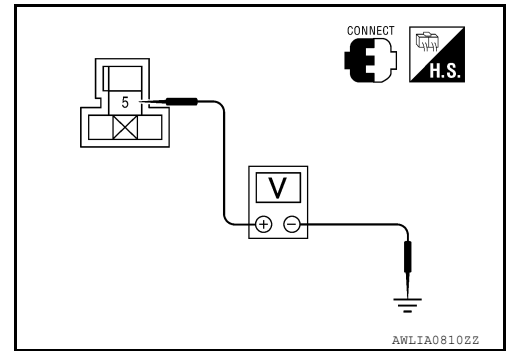
< DTC/CIRCUIT DIAGNOSIS >

Check voltage between cargo lamp relay connector M165 terminal 5 and ground.

| Cargo lamp relay | | Ground | Voltage |
|------------------|----------|--------|-----------------|
| Connector | Terminal | | Battery voltage |
| M165 | 5 | | |

Is the inspection result normal?

- YES >> Repair harness or connectors between cargo lamp relay and cargo lamp.
 NO >> Repair harness or connector between splice and cargo lamp relay.



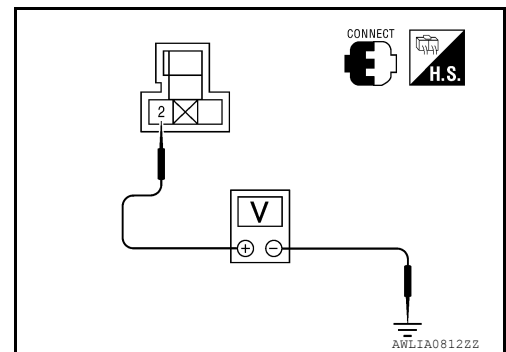
11. CHECK CARGO LAMP RELAY VOLTAGE PART 2

Check voltage between cargo lamp relay connector M165 terminal 2 and ground.

| Cargo lamp relay | | Ground | Voltage |
|------------------|----------|--------|-----------------|
| Connector | Terminal | | Battery voltage |
| M165 | 2 | | |

Is the inspection result normal?

- YES >> GO TO 12
 NO >> Repair harness or connectors.



12. CHECK CARGO LAMP RELAY CONTROL CIRCUIT OPEN

1. Disconnect BCM connector M19 and cargo lamp relay.
2. Check continuity between BCM connector M19 terminal 50 and cargo lamp relay connector M165 terminal 1.

| BCM | | Cargo lamp relay | | Continuity |
|-----------|----------|------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M19 | 50 | M165 | 1 | Yes |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-49. "Removal and Installation"](#).
 NO >> Repair harness or connectors.

13. CHECK CARGO LAMP RELAY CONTROL CIRCUIT SHORT

1. Disconnect BCM connector M19 and cargo lamp relay.
2. Check continuity between BCM connector M19 terminal 50 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M19 | 50 | Ground | No |

Is the inspection result normal?

- YES >> Replace BCM after making sure the cargo lamp power supply circuit is not shorted to voltage. Refer to [BCS-49. "Removal and Installation"](#).
 NO >> Repair harness or connectors.

Component Inspection

INFOID:000000009480144

CARGO LAMP SWITCH

1. CHECK CARGO LAMP SWITCH

CARGO LAMP CONTROL CIRCUIT

[WITH POWER DOOR LOCKS]

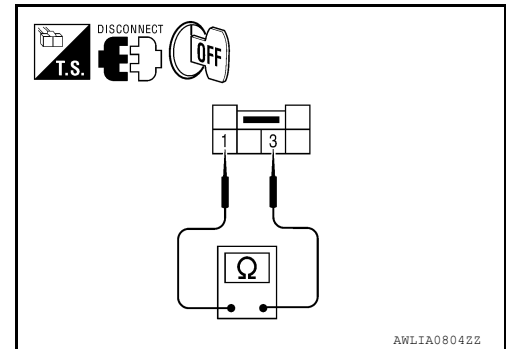
< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect cargo lamp switch connector.
3. Check continuity between cargo lamp switch terminals 1 and 3.

| Cargo lamp switch | | Condition | Continuity |
|-------------------|--|-----------|------------|
| Terminal | | | |
| 1 - 3 | | ON | Yes |
| | | OFF | No |

Is the inspection result normal?

- YES >> Inspection End
 NO >> Replace cargo lamp switch.



CARGO LAMP RELAY

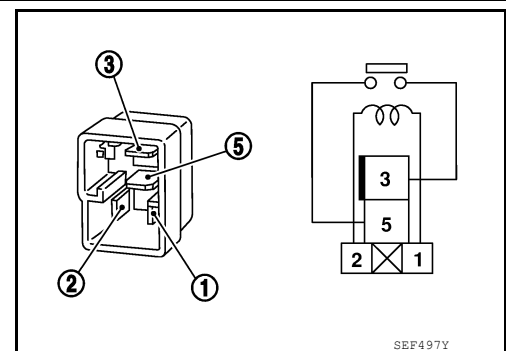
1. CHECK CARGO LAMP RELAY

1. Turn ignition switch OFF.
2. Disconnect cargo lamp relay.
3. Supply power to terminal 2 and ground to terminal 1 of the cargo lamp relay.
4. Check continuity between cargo lamp relay terminals 3 and 5.

| Terminal | | Condition | Continuity |
|----------|---|------------------------------|------------|
| 3 | 5 | | |
| | | No power and ground supplied | No |

Is the inspection result normal?

- YES >> Inspection End
 NO >> Replace cargo lamp relay.



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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH POWER DOOR LOCKS]

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description

INFOID:000000009480145

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

Component Function Check

INFOID:000000009480146

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-24, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009480147

Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram - With Power Door Lock System"](#).

1.CHECK IGNITION KEYHOLE OUTPUT

WITH CONSULT

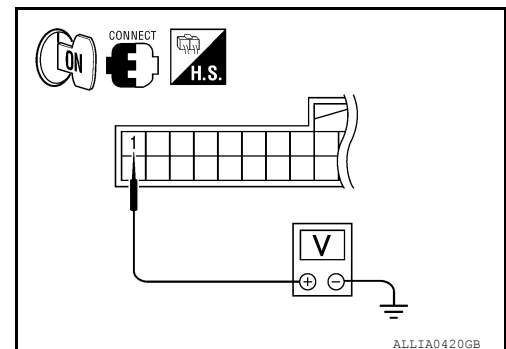
1. Turn ignition switch ON.
2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M18 terminal 1 and ground.

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

Is the inspection result normal?

- YES >> Ignition keyhole illumination control 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

[WITH POWER DOOR LOCKS]

< 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 the BCM. Refer to [BCS-49. "Removal and Installation"](#). If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.

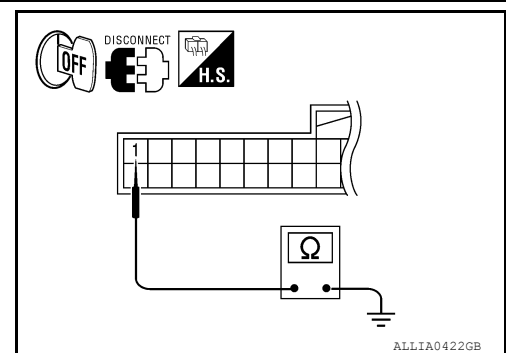
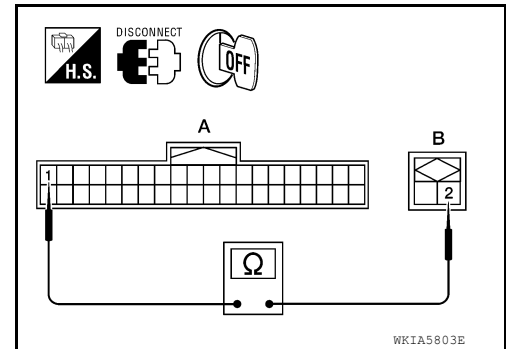
3. CHECK IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

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 the BCM. Refer to [BCS-49. "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 >

[WITH POWER DOOR LOCKS]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000010228011

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
- 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 |
| 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 |
| DOOR SW-RR | Rear door RH closed | Off |
| | Rear door RH opened | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

| Monitor Item | Condition | Value/Status | |
|----------------|---|--------------|-----|
| FAN ON SIG | Blower motor fan switch OFF | Off | A |
| | Blower motor fan switch ON | On | |
| FR FOG SW | Front fog lamp switch OFF | Off | B |
| | Front fog lamp switch ON | On | |
| FR WASHER SW | Front washer switch OFF | Off | C |
| | Front washer switch ON | On | |
| FR WIPER LOW | Front wiper switch OFF | Off | D |
| | Front wiper switch LO | On | |
| FR WIPER HI | Front wiper switch OFF | Off | E |
| | Front wiper switch HI | On | |
| FR WIPER INT | Front wiper switch OFF | Off | F |
| | Front wiper switch INT | On | |
| FR WIPER STOP | Any position other than front wiper stop position | Off | G |
| | Front wiper stop position | On | |
| HAZARD SW | When hazard switch is not pressed | Off | H |
| | When hazard switch is pressed | On | |
| HEAD LAMP SW 1 | Headlamp switch OFF | Off | I |
| | Headlamp switch 1st | On | |
| HEAD LAMP SW 2 | Headlamp switch OFF | Off | J |
| | Headlamp switch 1st | On | |
| HI BEAM SW | High beam switch OFF | Off | K |
| | High beam switch HI | On | |
| ID REGST FL1 | ID registration of front left tire incomplete | YET | INL |
| | ID registration of front left tire complete | DONE | |
| ID REGST FR1 | ID registration of front right tire incomplete | YET | M |
| | ID registration of front right tire complete | DONE | |
| ID REGST RL1 | ID registration of rear left tire incomplete | YET | N |
| | ID registration of rear left tire complete | DONE | |
| ID REGST RR1 | ID registration of rear right tire incomplete | YET | O |
| | ID registration of rear right tire complete | DONE | |
| IGN ON SW | Ignition switch OFF or ACC | Off | P |
| | 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 | |
| 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 | LOCK button of key fob is not pressed | Off | |
| | LOCK button of key fob is pressed | On | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

| Monitor Item | Condition | Value/Status |
|----------------|---|-----------------------------------|
| KEYLESS PANIC | PANIC button of key fob is not pressed | Off |
| | PANIC button of key fob is pressed | On |
| KEYLESS UNLOCK | 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 | • 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 |
| REAR DEF SW | Rear window defogger switch OFF | Off |
| | Rear window defogger switch ON | 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 |

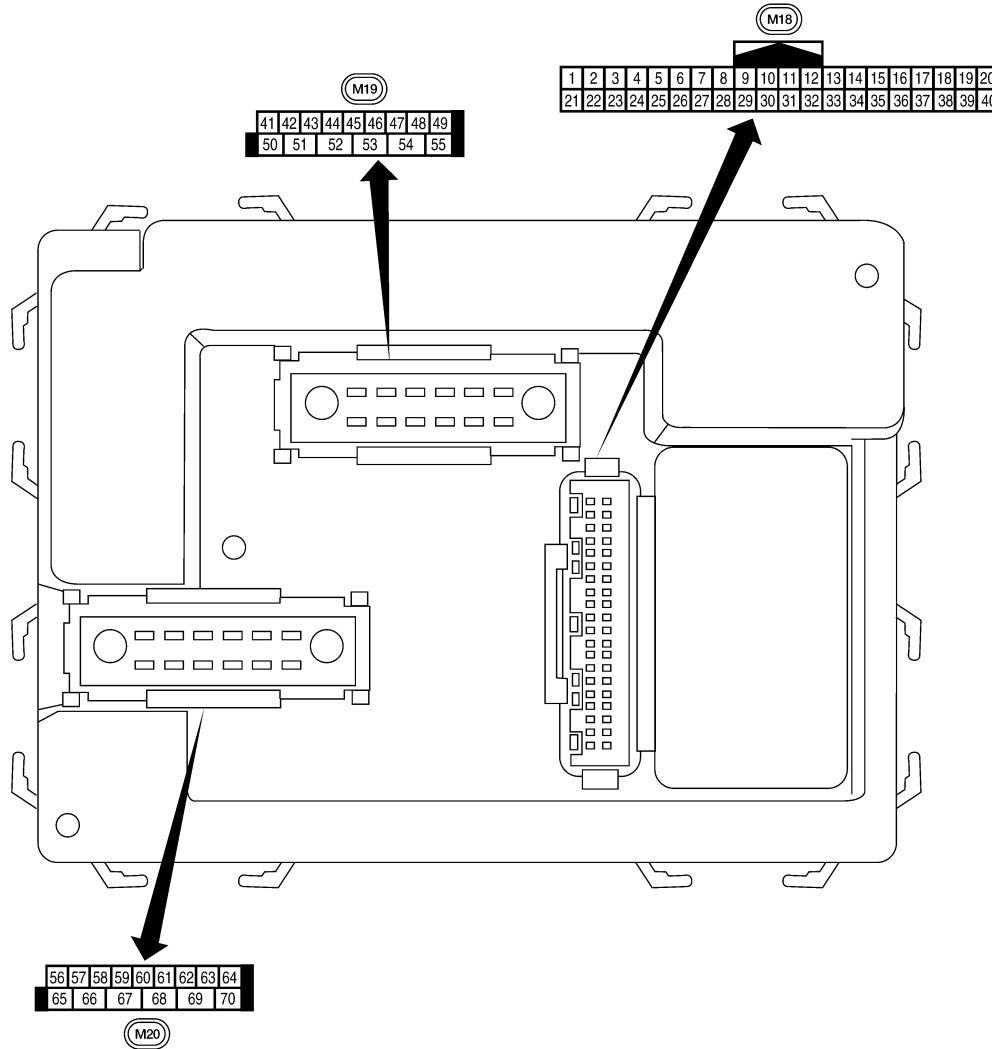
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

Terminal Layout

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Physical Values


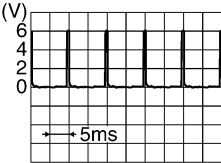

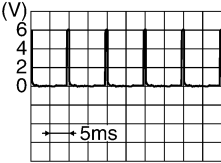
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INFOID:000000010228013

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|--|---------------------|---------------------|--|---|
| | | | | Ignition switch | Operation or condition | |
| 1 | BR | Ignition keyhole illumination | Output | OFF | Door is locked (SW OFF) | Battery voltage |
| | | | | | Door is unlocked (SW ON) | 0V |
| 2 | P | 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 | SB | 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 | V | 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 | L | 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 | R | Combination switch input 1 | | | | |
| 7 | GR | Front door lock assembly LH (key cylinder switch) unlock | Input | OFF | ON (open, 2nd turn) | Momentary 1.5V |
| 8 | SB | Front door lock assembly LH (key cylinder switch) lock | | | OFF (closed) | 0V |
| | | | On (open) | Momentary 1.5V | | |
| 9 | LG | Brake sw | Input | OFF | OFF (brake pedal is not depressed) | 0V |
| | | | | | ON (brake pedal is depressed) | Battery voltage |
| 11 | G/B | Ignition switch (ACC or ON) | Input | ACC or ON | Ignition switch ACC or ON | Battery voltage |
| 12 | LG | Front door switch RH (All) | Input | OFF | ON (open) | 0V |
| | | Rear door switch upper RH (King Cab) | | | OFF (closed) | Battery voltage |
| | | Rear door switch lower RH (King Cab) | | | | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|---|---------------------|---------------------|---|---|
| | | | | Ignition switch | Operation or condition | |
| 13 | L | Rear door switch RH (Crew Cab) | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 15 | W | Tire pressure warning check connector | Input | OFF | — | 5V |
| 18 | BR | Remote keyless entry receiver and optical sensor (Ground) | Output | OFF | — | 0V |
| 19 | V | Remote keyless entry receiver (power supply) | Output | OFF | Ignition switch OFF | <p style="text-align: right; font-size: small;">LIIA1893E</p> |
| 20 | G | Remote keyless entry receiver signal (Signal) | Input | OFF | Stand-by (keyfob buttons released) | <p style="text-align: right; font-size: small;">LIIA1894E</p> |
| | | | | | When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed) | <p style="text-align: right; font-size: small;">LIIA1895E</p> |
| 21 | GR | NATS antenna amp. | Input | OFF → ON | Ignition switch (OFF → ON) | Just after turning ignition switch ON: Pointer of tester should move. |
| 23 | G | 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. |
| 27 | W | Compressor ON signal | Input | ON | A/C switch OFF | 5V |
| | | | | | A/C switch ON | 0V |
| 28 | R | Front blower monitor | Input | ON | Front blower motor OFF | Battery voltage |
| | | | | | Front blower motor ON | 0V |
| 29 | G | Hazard switch | Input | OFF | ON | 0V |
| | | | | | OFF | 5V |
| 31 | GR | Cargo lamp switch | Input | OFF | ON | 0V |
| | | | | | OFF | Battery voltage |

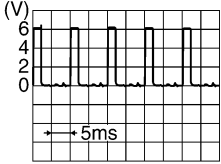
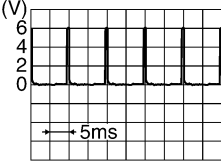
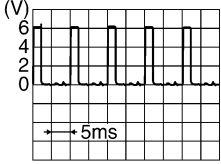
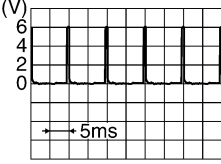
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|--------------------------------------|---------------------|---------------------|--|---|
| | | | | Ignition switch | Operation or condition | |
| 32 | BG | 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 | GR | 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 | G | 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 | BR | 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 | LG | Combination switch output 1 | | | | |
| 37 | B | Key switch | Input | OFF | Key inserted | Battery voltage |
| | | | | | Key removed | 0V |
| 38 | W/R | Ignition switch (ON) | Input | ON | — | Battery voltage |
| 39 | L | CAN-H | — | — | — | — |
| 40 | P | CAN-L | — | — | — | — |
| 41 | Y | Rear window defogger switch | Input | ON | Rear window defogger switch ON | 0V |
| | | | | | Rear window defogger switch OFF | 5V |
| 45 | V | Lock switch | Input | OFF | ON (lock) | 0V |
| | | | | | OFF | Battery voltage |
| 46 | LG | Unlock switch | Input | OFF | ON (unlock) | 0V |
| | | | | | OFF | Battery voltage |
| 47 | GR | Front door switch LH (All) | Input | OFF | ON (open) | 0V |
| | | Rear door switch upper LH (King Cab) | | | OFF (closed) | Battery voltage |
| | | Rear door switch lower LH (King Cab) | | | | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) | |
|----------|------------|--------------------------------------|---------------------|---------------------|--|---|----|
| | | | | Ignition switch | Operation or condition | | |
| 48 | P | Rear door switch LH (Crew Cab) | Input | OFF | ON (open) | 0V | |
| | | | | | OFF (closed) | Battery voltage | |
| 50 | P | Cargo lamp | Output | OFF | Any door open (ON) | 0V | |
| | | | | | All doors closed (OFF) | Battery voltage | |
| 51 | BG | Trailer turn signal (right) | Output | ON | Turn right ON | <p style="text-align: right; font-size: small;">SKIA3009J</p> | |
| 52 | LG | Trailer turn signal (left) | Output | ON | Turn left ON | <p style="text-align: right; font-size: small;">SKIA3009J</p> | |
| 56 | R/Y | Battery saver output | Output | OFF | 10 minutes after ignition switch is turned OFF | 0V | |
| | | | | ON | — | Battery voltage | |
| 57 | R/Y | Battery power supply | Input | — | — | Battery voltage | |
| 58 | W | Optical sensor | Input | ON | When optical sensor is illuminated | 3.1V or more | |
| | | | | | When optical sensor is not illuminated | 0.6V or less | |
| 59 | GR | Front door lock assembly LH (unlock) | Output | OFF | OFF (neutral) | 0V | |
| | | | | | ON (unlock) | Battery voltage | |
| 60 | LG | Turn signal (left) | Output | ON | Turn left ON | <p style="text-align: right; font-size: small;">SKIA3009J</p> | |
| 61 | G | Turn signal (right) | Output | ON | Turn right ON | <p style="text-align: right; font-size: small;">SKIA3009J</p> | |
| 63 | BR | 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 | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|-----------------|------------|--|---------------------|---------------------|---|---------------------------------------|
| | | | | Ignition switch | Operation or condition | |
| 66 | L | Front door lock actuator RH, rear door lock actuators LH/RH (unlock) | Output | OFF | OFF (neutral) | 0V |
| | | | | | ON (unlock) | Battery voltage |
| 67 | B | Ground | Input | ON | — | 0V |
| 68 ¹ | O | 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 |
| 68 ² | SB | 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 | P | Power window power supply (BAT) | Output | OFF | — | Battery voltage |
| 70 | W | Battery power supply | Input | OFF | — | Battery voltage |

1: King cab

2: Crew cab

Fail Safe

INFOID:000000010228014

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:000000010228015

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 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH POWER DOOR LOCKS]

| Priority | DTC | |
|----------|--|---------------------------------|
| 3 | <ul style="list-style-type: none"> • C1729: VHCL SPEED SIG ERR • C1735: IGNITION SIGNAL | A |
| 4 | <ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL | B C D E F G H |

DTC Index

INFOID:000000010228016

NOTE:

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

| CONSULT display | Fail-safe | Low tire pressure warning lamp ON | Reference page |
|--|-----------|-----------------------------------|------------------------|
| No DTC is detected. further testing may be required. | — | — | — |
| U1000: CAN COMM CIRCUIT | — | — | BCS-26 |
| B2190: NATS ANTENA AMP | — | — | SEC-18 |
| B2191: DIFFERENCE OF KEY | — | — | SEC-21 |
| B2192: ID DISCORD BCM-ECM | — | — | SEC-22 |
| B2193: CHAIN OF BCM-ECM | — | — | SEC-24 |
| C1708: [NO DATA] FL | — | X | WT-15 |
| C1709: [NO DATA] FR | — | X | WT-15 |
| C1710: [NO DATA] RR | — | X | WT-15 |
| C1711: [NO DATA] RL | — | X | WT-15 |
| C1712: [CHECKSUM ERR] FL | — | X | WT-17 |
| C1713: [CHECKSUM ERR] FR | — | X | WT-17 |
| C1714: [CHECKSUM ERR] RR | — | X | WT-17 |
| C1715: [CHECKSUM ERR] RL | — | X | WT-17 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

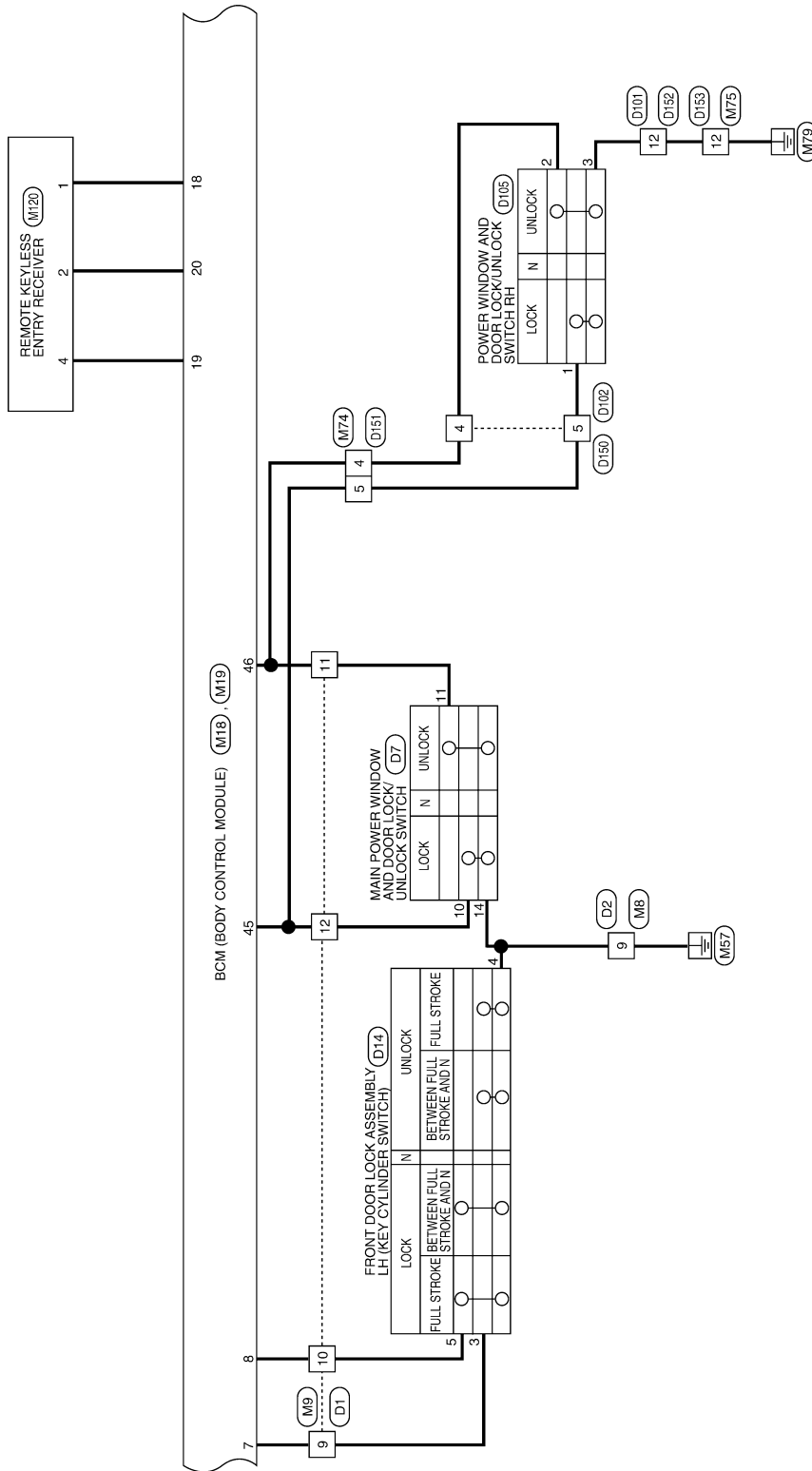
[WITH POWER DOOR LOCKS]

| CONSULT display | Fail-safe | Low tire pressure warning lamp ON | Reference page |
|---------------------------|-----------|-----------------------------------|-----------------------|
| C1716: [PRESSDATA ERR] FL | — | X | WT-19 |
| C1717: [PRESSDATA ERR] FR | — | X | WT-19 |
| C1718: [PRESSDATA ERR] RR | — | X | WT-19 |
| C1719: [PRESSDATA ERR] RL | — | X | WT-19 |
| C1720: [CODE ERR] FL | — | X | WT-17 |
| C1721: [CODE ERR] FR | — | X | WT-17 |
| C1722: [CODE ERR] RR | — | X | WT-17 |
| C1723: [CODE ERR] RL | — | X | WT-17 |
| C1724: [BATT VOLT LOW] FL | — | X | WT-17 |
| C1725: [BATT VOLT LOW] FR | — | X | WT-17 |
| C1726: [BATT VOLT LOW] RR | — | X | WT-17 |
| C1727: [BATT VOLT LOW] RL | — | X | WT-17 |
| C1729: VHCL SPEED SIG ERR | — | X | WT-21 |
| C1735: IGNITION SIGNAL | — | X | WT-22 |

INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]



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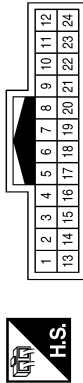
INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]

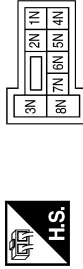
INTERIOR ROOM LAMP CONNECTORS - WITH POWER DOOR LOCK SYSTEM

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



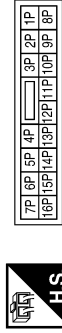
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/Y | - |
| 20 | B | - |
| 21 | BR | - |

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



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

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



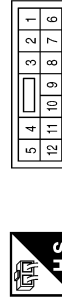
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 15P | W/R | - |

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



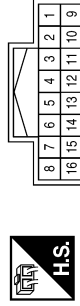
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | W | - |

| | |
|-----------------|--------------|
| Connector No. | M8 |
| Connector Name | WIRE TO WIRE |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | B | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | GR | - |
| 10 | SB | - |
| 11 | LG | - |
| 12 | V | - |

INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]

| | |
|-----------------|---------------------------|
| 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 |
|--------------|---------------|-------------------|
| 45 | V | CDL LOCK SW |
| 46 | LG | CDL UNLOCK SW |
| 47 | GR | DOOR SW (DR) |
| 48 | P | DOOR SW (RL) |
| 50 | P | CARGO LAMP OUTPUT |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------------------------|
| 18 | BR | KEYLESS & AUTO LIGHT SENSOR GND |
| 19 | V | KEYLESS TUNER POWER SUPPLY OUTPUT |
| 20 | G | KEYLESS TUNER SIGNAL |
| 31 | GR | CARGO LAMP SW |
| 37 | B | KEY SW |
| 38 | W/R | IGN SW |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|-----------------|---------------------------|
| 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 | KEY RING OUTPUT |
| 7 | GR | KEY CYLINDER UNLOCK SW |
| 8 | SB | KEY CYLINDER LOCK SW |
| 12 | LG | DOOR SW (AS) |
| 13 | L | DOOR SW (RR) |

| | |
|-----------------|------------|
| Connector No. | M27 |
| Connector Name | KEY SWITCH |
| Connector Color | WHITE |



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

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

| | |
|-----------------|---------------------------|
| 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/Y | BATTERY SAVER OUTPUT |
| 57 | R/Y | BAT (FUSE) |
| 63 | BR | ROOM LAMP OUTPUT |
| 67 | B | GND (POWER) |
| 70 | W | BAT (F/L) |

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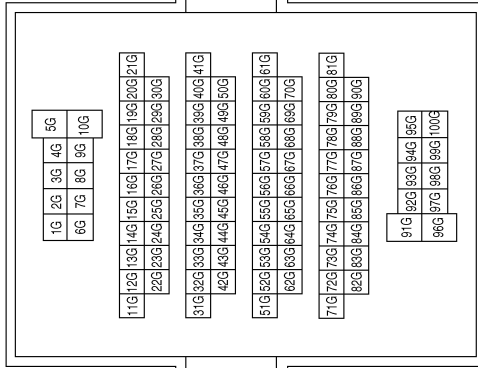


INTERIOR ROOM LAMP

< WIRING DIAGRAM >

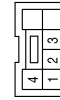
[WITH POWER DOOR LOCKS]

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



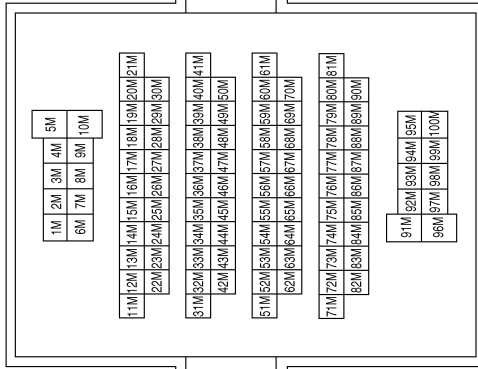
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 35G | Y | - |

| | |
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| Connector No. | M71 |
| Connector Name | CARGO LAMP SWITCH |
| Connector Color | WHITE |



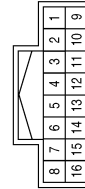
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | GR | - |
| 3 | B | - |

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



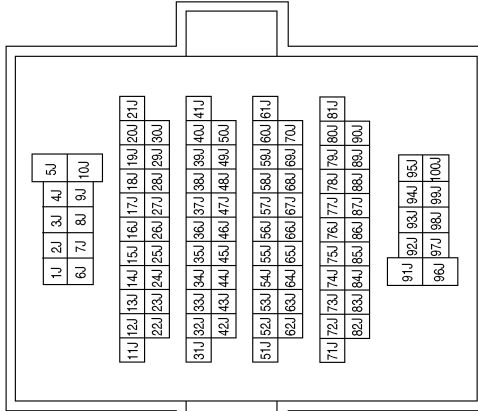
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 45M | G | - |
| 49M | LG | - |
| 50M | L | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | LG | - |
| 5 | P | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 40J | P | - |
| 41J | GR | - |
| 49J | R/Y | - |

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



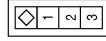
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | B | - |

INTERIOR ROOM LAMP

< WIRING DIAGRAM >

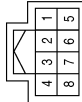
[WITH POWER DOOR LOCKS]

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



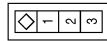
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | P | - |

| | |
|-----------------|--------------|
| Connector No. | B16 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | B | - |
| 8 | GR | - |

| | |
|-----------------|---------------------------------|
| Connector No. | B8 |
| Connector Name | FRONT DOOR SWITCH LH (CREW CAB) |
| Connector Color | WHITE |



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

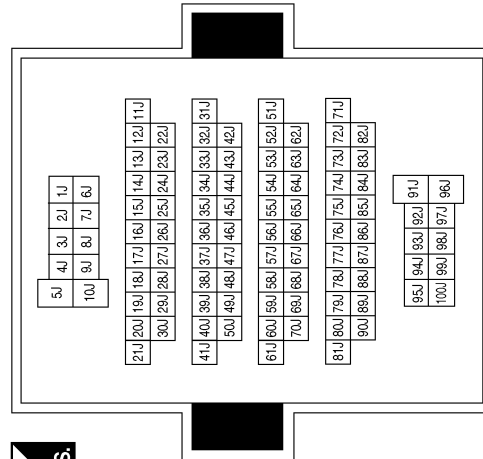
| | |
|-----------------|----------------|
| Connector No. | B80 |
| Connector Name | VANITY LAMP LH |
| Connector Color | WHITE |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 40J | P | - |
| 41J | GR | - |
| 49J | R/Y | - |

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



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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]

| | |
|-----------------|----------------|
| Connector No. | B81 |
| Connector Name | VANITY LAMP RH |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | B107 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | B | - |
| 8 | LG | - |

| | |
|-----------------|---------------------------------|
| Connector No. | B108 |
| Connector Name | FRONT DOOR SWITCH RH (CREW CAB) |
| Connector Color | WHITE |



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

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

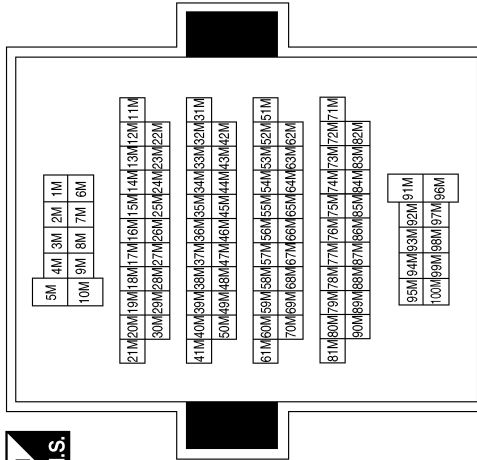


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | L | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 45M | G | - |
| 49M | LG | - |
| 50M | L | - |



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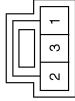
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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

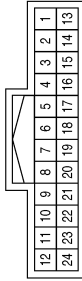
[WITH POWER DOOR LOCKS]

| | |
|-----------------|------------------------------|
| Connector No. | R9 |
| Connector Name | FRONT ROOM/MAP LAMP ASSEMBLY |
| Connector Color | WHITE |



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

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



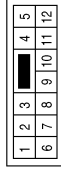
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/Y | - |
| 20 | B | - |
| 21 | BR | - |

| | |
|-----------------|---------------------------------|
| Connector No. | B161 |
| Connector Name | HIGH-MOUNTED STOP LAMP ASSEMBLY |
| Connector Color | WHITE |



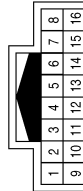
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | B | - |
| 3 | G | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | B | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/W | - |
| 10 | SB | - |
| 11 | W | - |
| 12 | LG | - |

| | |
|-----------------|-------------------|
| Connector No. | R10 |
| Connector Name | ROOM LAMP 2ND ROW |
| Connector Color | WHITE |



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

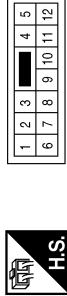
ABLIA5639GB

INTERIOR ROOM LAMP

< WIRING DIAGRAM >

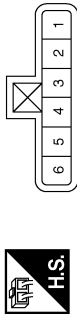
[WITH POWER DOOR LOCKS]

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



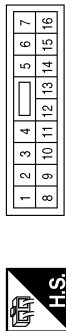
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | B | - |

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



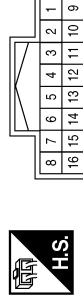
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R/W | - |
| 4 | B | - |
| 5 | SB | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | LG | - |
| 11 | W | - |
| 14 | B | - |

| | |
|-----------------|--------------|
| Connector No. | D150 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



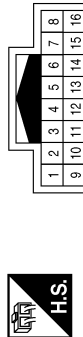
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 4 | LG | -(WITH KING CAB) |
| 4 | P | -(WITH CREW CAB) |
| 5 | P | -(WITH KING CAB) |
| 5 | W | -(WITH CREW CAB) |

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



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

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | W | - |
| 5 | LG | - |

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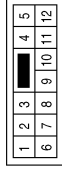
INL

INTERIOR ROOM LAMP

< WIRING DIAGRAM >

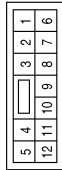
[WITH POWER DOOR LOCKS]

| | |
|-----------------|--------------|
| Connector No. | D153 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



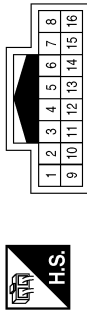
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | B | - |

| | |
|-----------------|--------------|
| Connector No. | D152 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 12 | B | - |

| | |
|-----------------|--------------|
| Connector No. | D151 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 4 | LG | -(WITH KING CAB) |
| 4 | P | -(WITH CREW CAB) |
| 5 | P | -(WITH KING CAB) |
| 5 | W | -(WITH CREW CAB) |

| | |
|-----------------|---------------------------------|
| Connector No. | D213 |
| Connector Name | FRONT DOOR SWITCH LH (KING CAB) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | LG | - |
| 3 | B | - |

| | |
|-----------------|---------------------------|
| Connector No. | D212 |
| Connector Name | REAR DOOR SWITCH LOWER LH |
| Connector Color | BLACK |



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

| | |
|-----------------|---------------------------|
| Connector No. | D211 |
| Connector Name | REAR DOOR SWITCH UPPER LH |
| Connector Color | BLACK |



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

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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

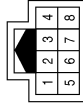
[WITH POWER DOOR LOCKS]

| | |
|-----------------|---------------------------|
| Connector No. | D312 |
| Connector Name | REAR DOOR SWITCH UPPER RH |
| Connector Color | BLACK |



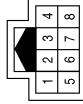
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | B | - |

| | |
|-----------------|--------------|
| Connector No. | D302 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



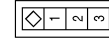
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | B | - |
| 8 | LG | - |

| | |
|-----------------|--------------|
| Connector No. | D216 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | B | - |
| 8 | LG | - |

| | |
|-----------------|---------------------------------|
| Connector No. | D314 |
| Connector Name | FRONT DOOR SWITCH RH (KING CAB) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | LG | - |
| 3 | B | - |

| | |
|-----------------|---------------------------|
| Connector No. | D313 |
| Connector Name | REAR DOOR SWITCH LOWER RH |
| Connector Color | BLACK |



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

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ILLUMINATION

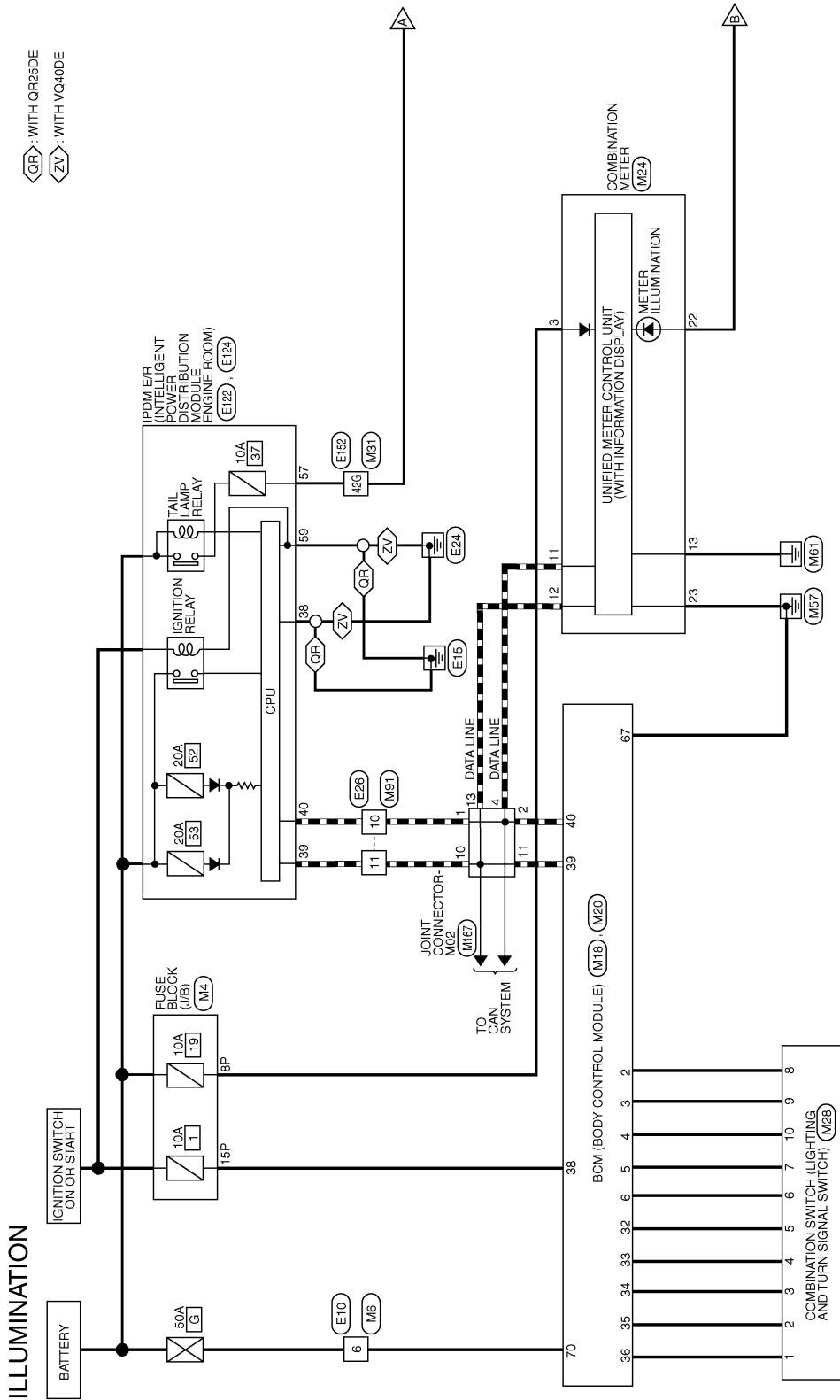
< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]

ILLUMINATION

Wiring Diagram

INFOID:000000009480155



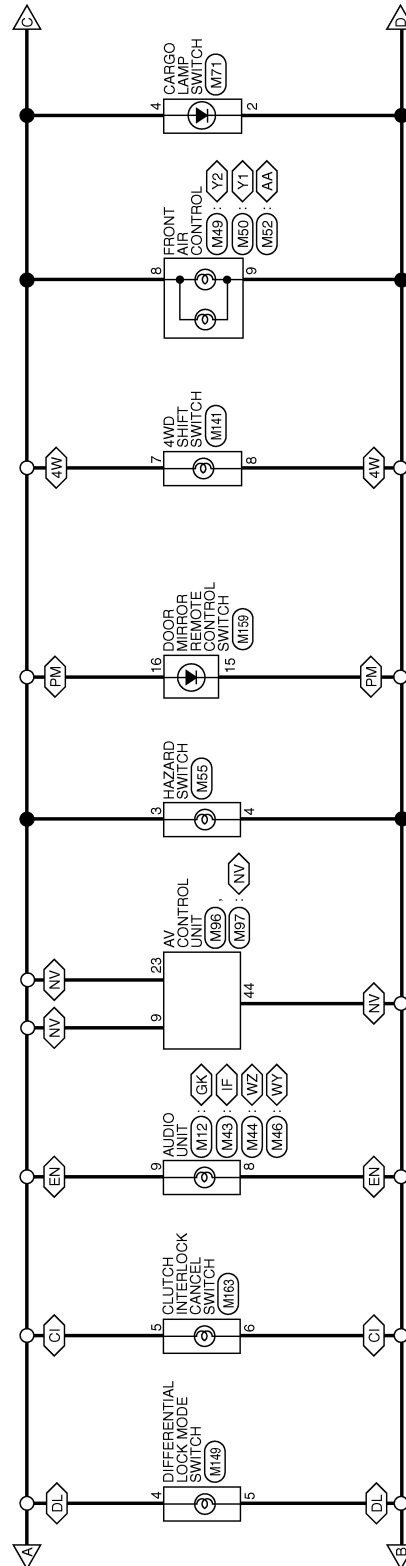
ABLWA2390GB

ILLUMINATION

[WITH POWER DOOR LOCKS]

< WIRING DIAGRAM >

- <4W> : WITH 4-WHEEL DRIVE
- <AA> : WITH AUTO A/C
- <BA> : WITH BASE AUDIO SYSTEM
- <CI> : WITH CLUTCH INTERLOCK CANCEL SWITCH
- <DL> : WITH ELECTRONIC LOCKING REAR DIFFERENTIAL
- <EN> : WITHOUT NAVI
- <GK> : WITH BASE AUDIO SYSTEM FOR MEXICO
- <IF> : WITH BASE AUDIO SYSTEM EXCEPT FOR MEXICO
- <NV> : WITH NAVI
- <PM> : WITH POWER OUTSIDE MIRRORS
- <WY> : WITH DISPLAY AUDIO AND AMPLIFIER
- <WZ> : WITH DISPLAY AUDIO WITHOUT AMPLIFIER
- <Y1> : MANUAL WITH TYPE 1
- <Y2> : MANUAL WITH TYPE 2



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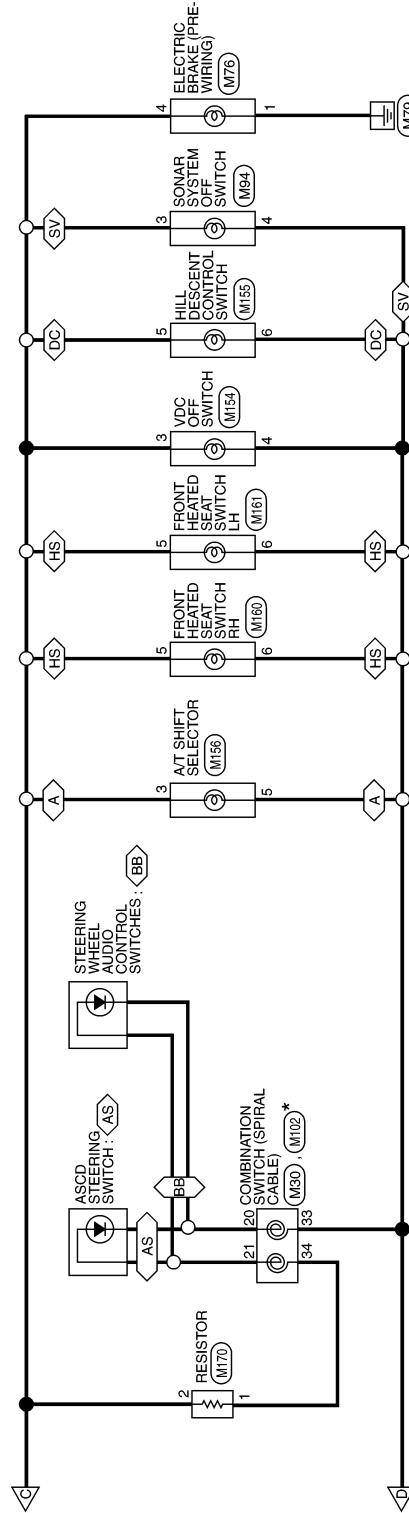
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ILLUMINATION

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]

- <A> : WITH A/T
- <AS> : WITH ASCD
- <BB> : WITH BLUETOOTH
- <DC> : WITH HILL DESCENT CONTROL AND HILL START ASSIST
- <HS> : WITH HEATED SEATS
- <SV> : WITH SONAR SYSTEM

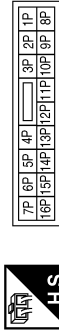


* : THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

ABLWA2030GB

ILLUMINATION CONNECTORS

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



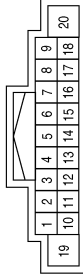
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8P | R/Y | - |
| 15P | W/R | - |

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



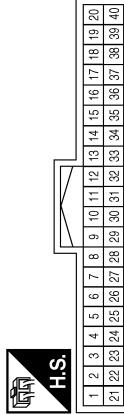
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | W | - |

| | |
|-----------------|---|
| Connector No. | M12 |
| Connector Name | AUDIO UNIT (BASE AUDIO SYSTEM - FOR MEXICO) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | GR | ILL CONT |
| 9 | R | LIGHT SW |

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



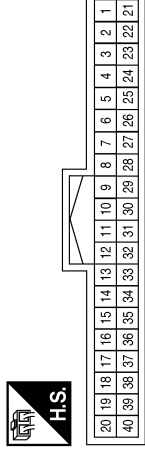
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | P | INPUT 5 |
| 3 | SB | INPUT 4 |
| 4 | V | INPUT 3 |
| 5 | L | INPUT 2 |
| 6 | R | INPUT 1 |
| 32 | BG | OUTPUT 5 |
| 33 | GR | OUTPUT 4 |
| 34 | G | OUTPUT 3 |
| 35 | BR | OUTPUT 2 |
| 36 | LG | OUTPUT 1 |
| 38 | W/R | 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 | BAT (F/L) |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 3 | R/Y | BATTERY |
| 11 | P | CAN-L |
| 12 | L | CAN-H |
| 13 | GR | GROUND |
| 22 | BR | ILLUMINATION CONTROL |
| 23 | B | POWER GND |

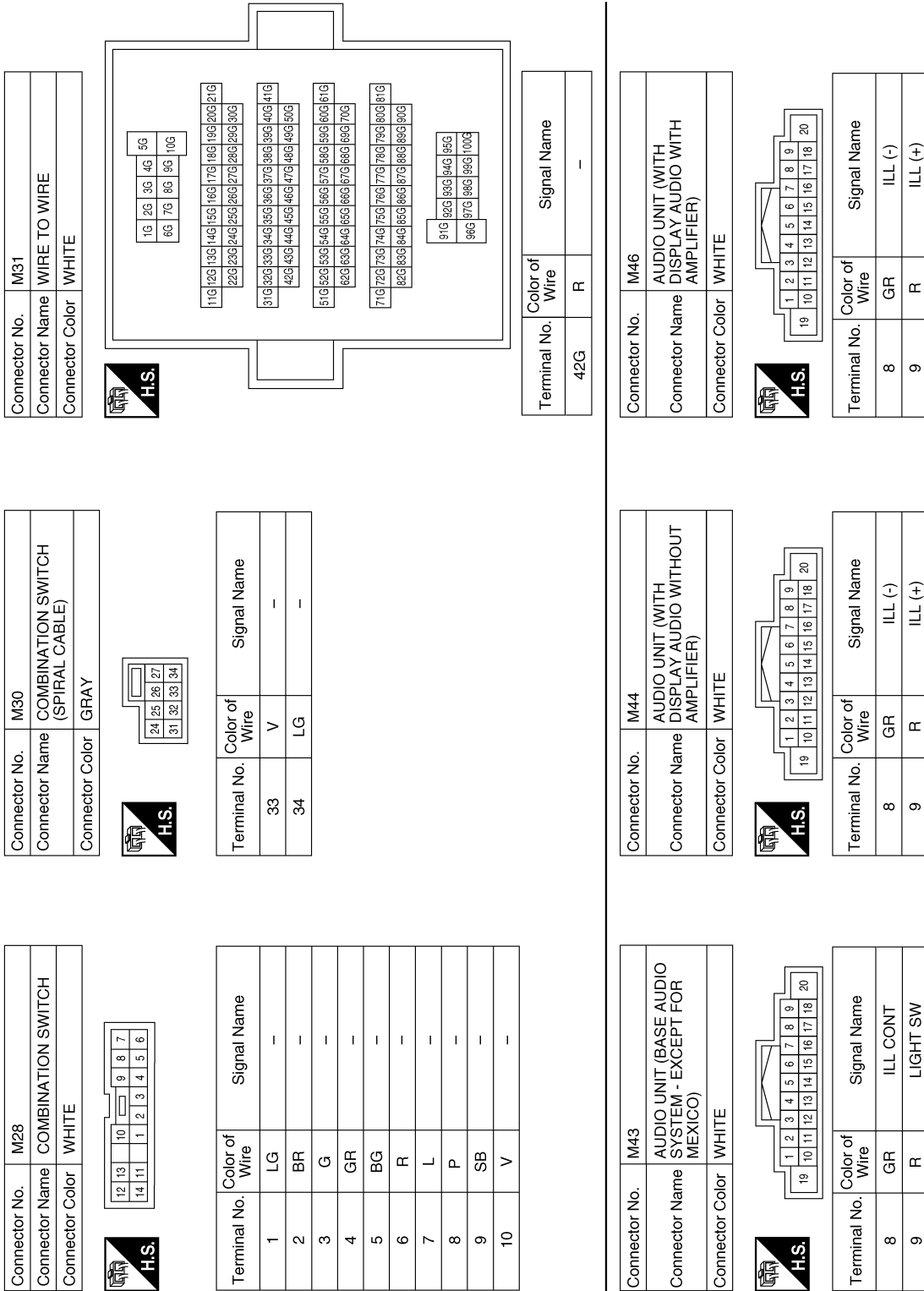
ABLIA5647GB



ILLUMINATION

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]



ABLIAS648GB

ILLUMINATION

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]

| | |
|-----------------|--------------------------------------|
| Connector No. | M52 |
| Connector Name | FRONT AIR CONTROL (WITH AUTO A/C) |
| Connector Color | BLACK |

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | G | ILLUM+ |
| 9 | BR | ILLUM- |

| | |
|-----------------|---|
| Connector No. | M50 |
| Connector Name | FRONT AIR CONTROL (MANUAL WITH TYPE 1) |
| Connector Color | BLACK |

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | G | ILLUM+ |
| 9 | BR | ILLUM- |

| | |
|-----------------|---|
| Connector No. | M49 |
| Connector Name | FRONT AIR CONTROL (MANUAL WITH TYPE 2) |
| Connector Color | BLACK |

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | G | ILLUM+ |
| 9 | BR | ILLUM- |

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

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



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

| | |
|-----------------|-------------------|
| Connector No. | M71 |
| Connector Name | CARGO LAMP SWITCH |
| Connector Color | WHITE |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | P | - |
| 4 | V | - |

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

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



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

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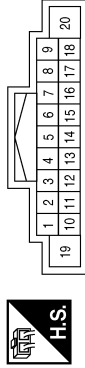
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ILLUMINATION

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]

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|-----------------|-----------------|
| Connector No. | M96 |
| Connector Name | AV CONTROL UNIT |
| Connector Color | WHITE |



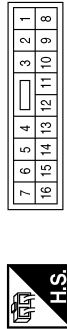
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R | LIGHT SW |

| | |
|-----------------|-------------------------|
| Connector No. | M94 |
| Connector Name | SONAR SYSTEM OFF SWITCH |
| Connector Color | GRAY |



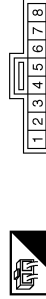
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R | - |
| 4 | BR | - |

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| Connector No. | M91 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



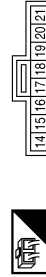
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | P | - |
| 11 | L | - |

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



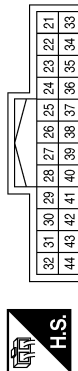
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | R | - |
| 8 | BR | - |

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|-----------------|-----------------------------------|
| Connector No. | M102 |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 20 | W | - |
| 21 | R | - |

| | |
|-----------------|-----------------|
| Connector No. | M97 |
| Connector Name | AV CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 23 | P | MR OUTPUT |
| 44 | GR | ILL CONT |

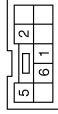
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ILLUMINATION

< WIRING DIAGRAM >

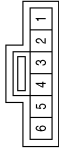
[WITH POWER DOOR LOCKS]

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|-----------------|-----------------------------|
| Connector No. | M155 |
| Connector Name | HILL DESCENT CONTROL SWITCH |
| Connector Color | WHITE |



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

| | |
|-----------------|----------------|
| Connector No. | M154 |
| Connector Name | VDC OFF SWITCH |
| Connector Color | GRAY |



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

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|-----------------|-------------------------------|
| Connector No. | M149 |
| Connector Name | DIFFERENTIAL LOCK MODE SWITCH |
| Connector Color | WHITE |



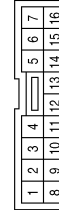
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | R | - |
| 5 | BR | - |

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|-----------------|-----------------------------|
| Connector No. | M160 |
| Connector Name | FRONT HEATED SEAT SWITCH RH |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | SB | - |
| 6 | BG | - |

| | |
|-----------------|-----------------------------------|
| Connector No. | M159 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 15 | BR | - |
| 16 | R | - |

| | |
|-----------------|--------------------|
| Connector No. | M156 |
| Connector Name | A/T SHIFT SELECTOR |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R | - |
| 5 | BR | - |

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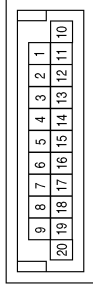
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ILLUMINATION

< WIRING DIAGRAM >

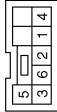
[WITH POWER DOOR LOCKS]

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| Connector No. | M167 |
| Connector Name | JOINT CONNECTOR-M02 |
| Connector Color | BLUE |



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

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|-----------------|--------------------------------|
| Connector No. | M163 |
| Connector Name | CLUTCH INTERLOCK CANCEL SWITCH |
| Connector Color | WHITE |



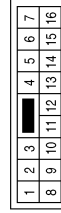
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R | - |
| 6 | BR | - |

| | |
|-----------------|-----------------------------|
| Connector No. | M161 |
| Connector Name | FRONT HEATED SEAT SWITCH LH |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | E26 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | P | - |
| 11 | L | - |

| | |
|-----------------|--------------|
| Connector No. | E10 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | W | - |

| | |
|-----------------|----------|
| Connector No. | M170 |
| Connector Name | RESISTOR |
| Connector Color | BLACK |



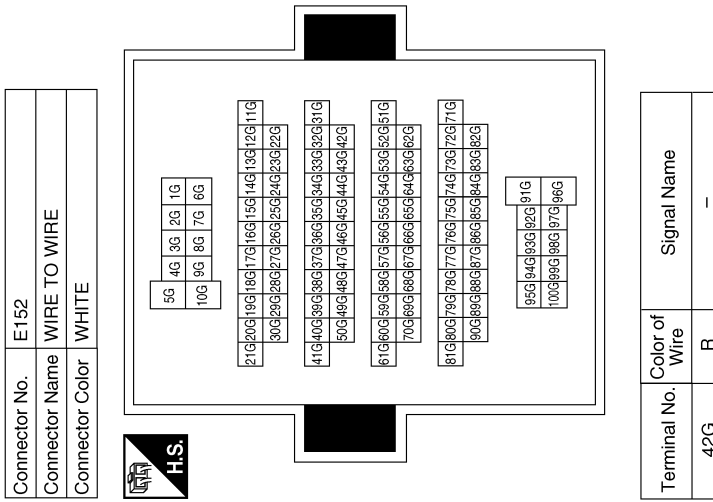
| Terminal No. | Color of Wire | Signal Name |
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| 1 | LG | - |
| 2 | R | - |

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ILLUMINATION

< WIRING DIAGRAM >

[WITH POWER DOOR LOCKS]



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 42G | R | - |

| | |
|-----------------|--|
| 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 |
|--------------|---------------|-------------|
| 57 | GR | TAIL LAMP |
| 59 | B | GND (POWER) |

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

| | | | | | |
|----|----|----|----|----|----|
| 42 | 41 | 40 | 39 | 38 | 37 |
| 48 | 47 | 46 | 45 | 44 | 43 |



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

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INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH POWER DOOR LOCKS]

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000009480156

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 • Room lamp 2nd row • Vanity mirror lamps (if equipped) • Ignition keyhole illumination (if equipped) | <ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • Harness between BCM and each door switch • 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"> • Front room/map lamp assembly • Room lamp 2nd row | <ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM | Interior room lamp control circuit Refer to INL-18 . |
| Cargo lamp does not turn ON/OFF | <ul style="list-style-type: none"> • Harness between fuse block (J/B) and cargo lamp relay • Harness between cargo lamp relay and cargo lamp • Harness between BCM and cargo lamp relay • BCM | Cargo lamp control circuit Refer to INL-20 . |
| 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 circuit Refer to INL-24 |
| Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.) | — | Check the interior room lamp setting. Refer to INL-12 . " INT LAMP : CONSULT Function (BCM - INT LAMP) ". |
| Interior room lamp battery saver does not activate. | — | Check the interior room lamp battery saver setting. Refer to BCS-22 . " BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) ". |

PRECAUTION

PRECAUTIONS

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

INFOID:000000010118811

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 three minutes before performing any service.

Precaution for Work

INFOID:000000009480158

- 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.

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PREPARATION

< PREPARATION >

[WITH POWER DOOR LOCKS]

PREPARATION

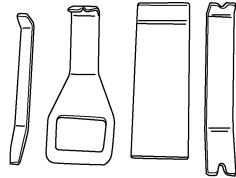
PREPARATION

Special Service Tool

INFOID:000000009480159

The actual shape of the tools may differ from those illustrated here.

| Tool number (TechMate No.) Tool name | Description |
|--|--------------------------|
| — (J-46534) Trim Tool Set | Removing trim components |



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INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

[WITH POWER DOOR LOCKS]

REMOVAL AND INSTALLATION

INTERIOR ROOM LAMP

Removal and Installation

INFOID:000000009480160

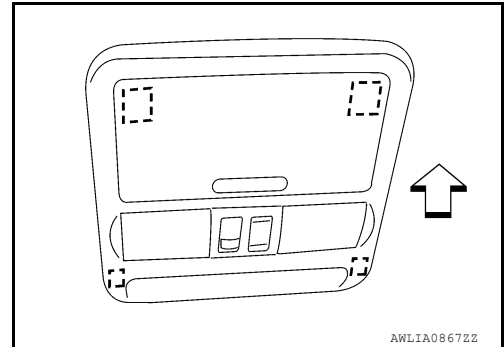
FRONT ROOM/MAP LAMP ASSEMBLY

Removal

The front room/map lamp assembly is replaced as part of the roof console. Refer to [INT-25. "Removal and Installation"](#).

⇐: Front

⊠: Metal clip



Installation

Installation is in the reverse order of removal.

Bulb or Lens Replacement

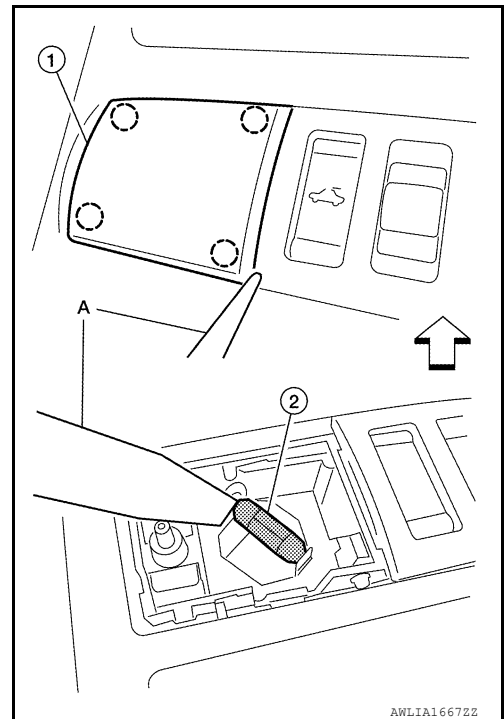
1. Using a suitable tool (A), remove the front room/map lamp RH and/or LH lenses (1) as necessary.

⇐: Front

⊙: Pawl

2. Release one side of the bulb (2) from the tab using a suitable tool, then pull straight downward to remove.

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



3. Install the new bulb into the socket tabs.
4. Install the front room/map lamp lens(es).

VANITY LAMP

Removal

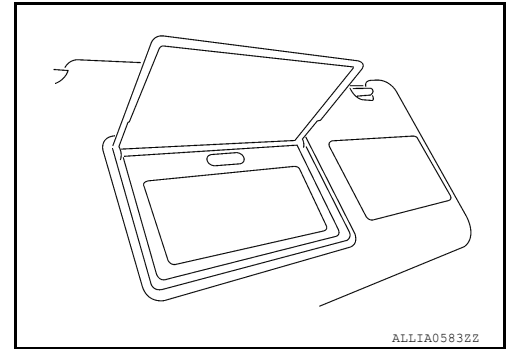
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INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

[WITH POWER DOOR LOCKS]

The vanity lamp is replaced as part of the sun visor assembly. Refer to [INT-25. "Removal and Installation"](#).



Installation

Installation is in the reverse order of removal.

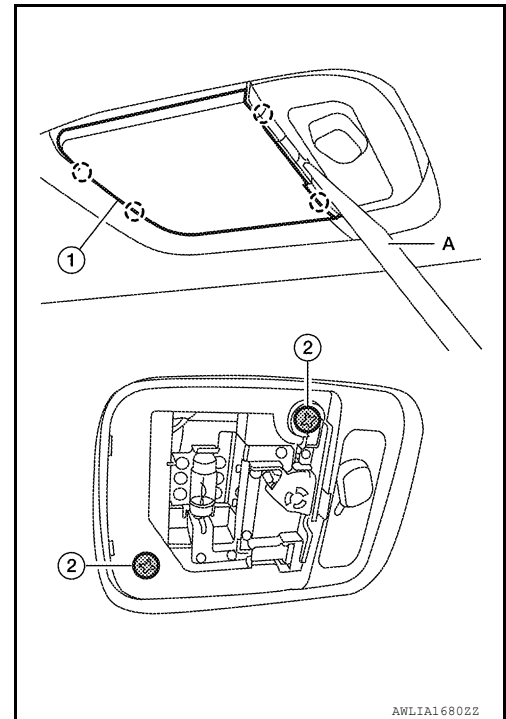
Bulb Replacement

The vanity mirror lamp bulb is replaced as part of the sun visor assembly. Refer to [INT-25. "Removal and Installation"](#).

ROOM LAMP 2ND ROW

Removal

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



Installation

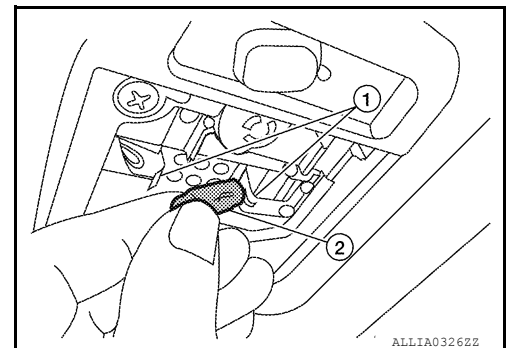
Installation is in the reverse order of removal.

Bulb or Lens Replacement

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

Room lamp bulb

: 12V - 8W



INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

[WITH POWER DOOR LOCKS]

4. Install the room lamp lens.

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ILLUMINATION

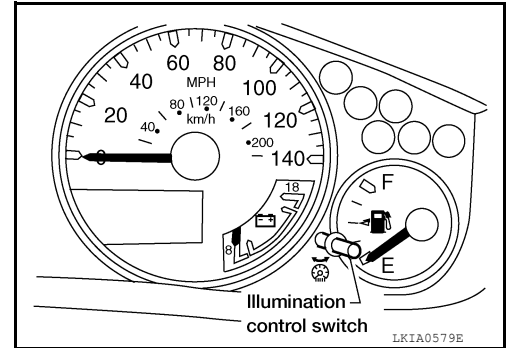
Removal and Installation

INFOID:000000009480161

ILLUMINATION CONTROL SWITCH

Removal

The illumination control switch is replaced as a part of the combination meter. Refer to [MWI-90, "Removal and Installation"](#).



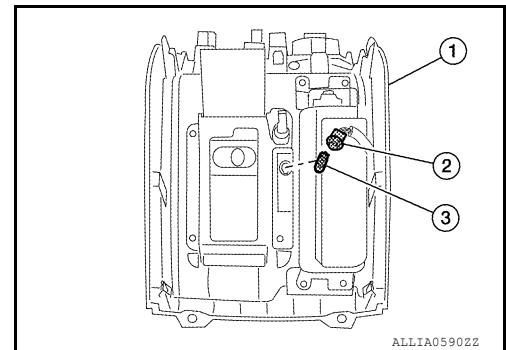
Installation

Installation is in the reverse order of removal.

SHIFT SELECTOR FINISHER LAMP

Removal

1. Remove shift selector finisher from center console. Refer to [IP-25, "Removal and Installation"](#).
2. Rotate shift selector finisher lamp socket (2) with bulb (3) counterclockwise, then pull away from finisher (1).



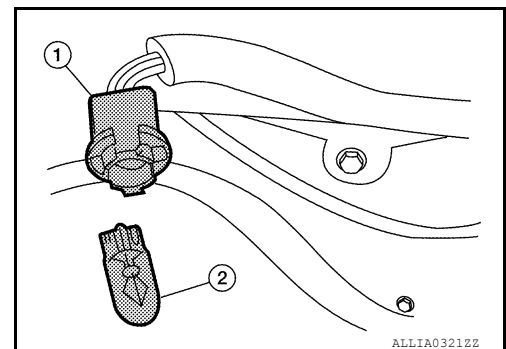
Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Remove shift selector finisher from center console. Refer to [IP-25, "Removal and Installation"](#).
2. Remove shift selector finisher lamp socket (1), then pull bulb (2) straight out away from socket.
3. Install the bulb (2) into the shift selector finisher socket (1).

AT finisher lamp bulb : 12V - 3W



4. Install shift selector finisher in center console. Refer to [IP-25, "Removal and Installation"](#).

BULB SPECIFICATIONS

< SERVICE DATA AND SPECIFICATIONS (SDS)

[WITH POWER DOOR LOCKS]

SERVICE DATA AND SPECIFICATIONS (SDS)

BULB SPECIFICATIONS

Bulb Specifications

INFOID:000000009480162

| Item | Wattage (W)* |
|------------------------------|--------------|
| Front room/map lamp | 8 |
| Vanity lamp | - |
| Room lamp 2nd row | 8 |
| Shift selector finisher lamp | 3 |

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

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT POWER DOOR LOCKS]

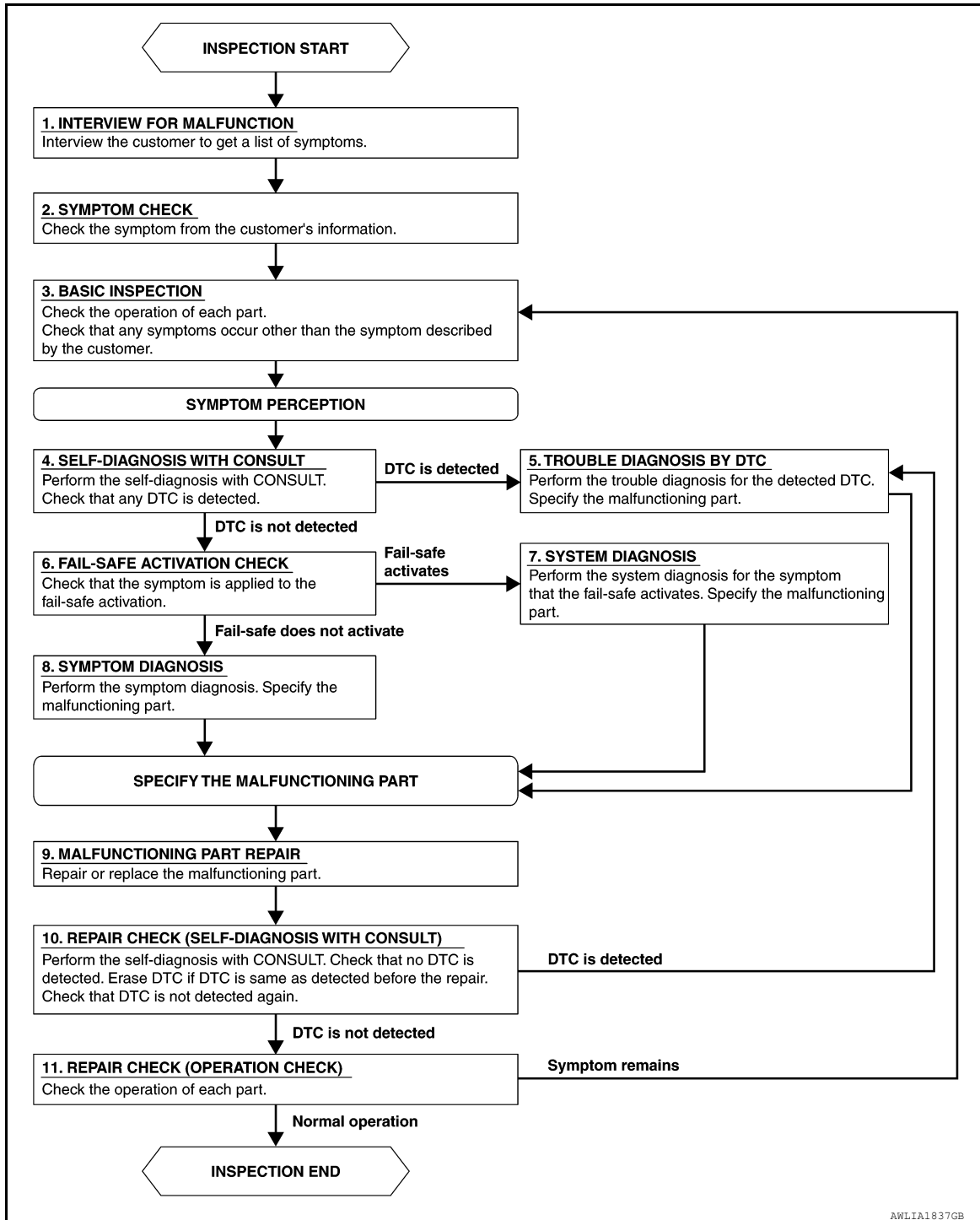
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT POWER DOOR LOCKS]

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. 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. Verify 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

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT POWER DOOR LOCKS]

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

INTERIOR ROOM LAMP

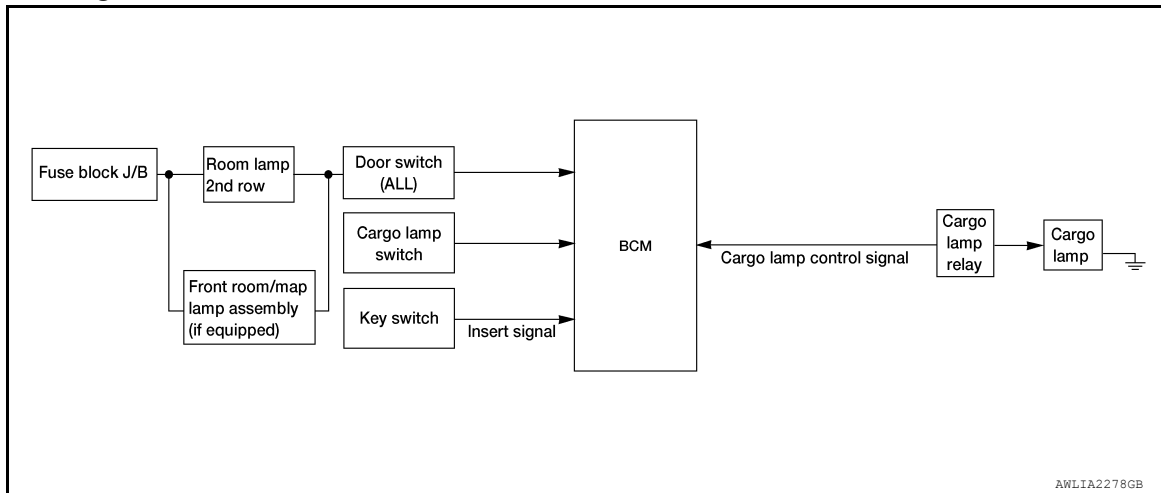
< SYSTEM DESCRIPTION >

[WITHOUT POWER DOOR LOCKS]

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP

System Diagram



System Description

INFOID:000000009480165

OUTLINE

- Room lamp 2nd row and front room/map lamp (if equipped) are powered by fuse block (J/B) fuse number 21 (10A). When the lamp is set to the DOOR position, ground is provided through the door switches.
- Cargo lamp is controlled by the cargo lamp control function of the BCM.

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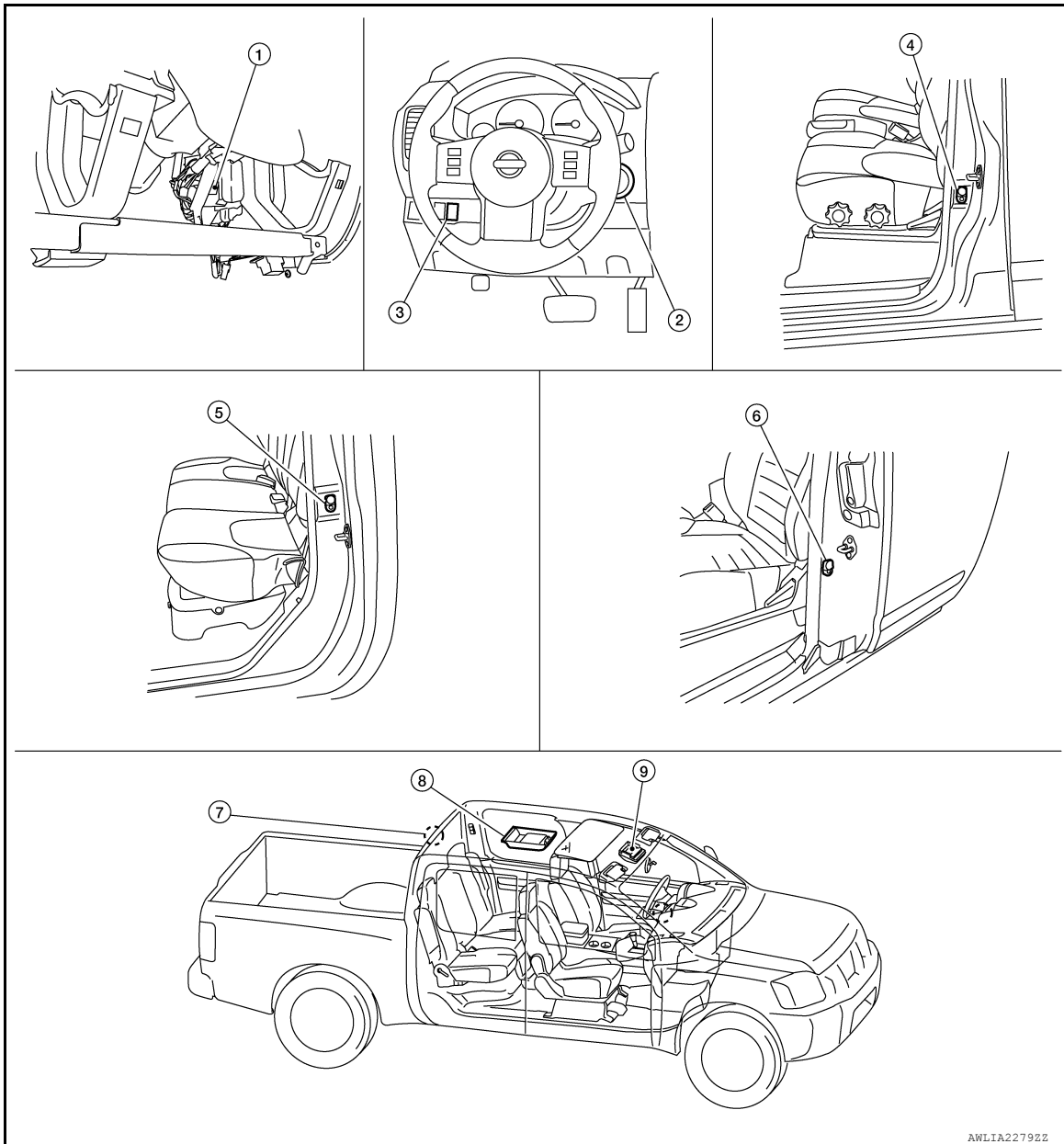
INTERIOR ROOM LAMP

< SYSTEM DESCRIPTION >

[WITHOUT POWER DOOR LOCKS]

Component Parts Location

INFOID:000000009480166



- | | | |
|---|--|---|
| 1. BCM M18, M19, M20 (view with lower instrument panel LH removed) | 2. Key switch M27 | 3. Cargo lamp switch M71 |
| 4. Front door switch LH B8 (crew cab) Front door switch RH B108 (crew cab) | 5. Rear door switch LH B18 (crew cab) Rear door switch RH B116 (crew cab) | 6. Front door switch LH D213 (king cab) Front door switch RH D314 (king cab) |
| 7. Cargo lamp B161 | 8. Room lamp 2nd row R10 | 9. Front room/map lamp assembly R9 (if equipped) |

Component Description

INFOID:000000009480167

| Part name | Description |
|------------|---|
| BCM | Provides ground for the cargo lamp relay. |
| Key switch | Provides key in ignition status to the BCM. |

INTERIOR ROOM LAMP

< SYSTEM DESCRIPTION >

[WITHOUT POWER DOOR LOCKS]

| | |
|-------------------|--|
| Door switches | Provides door OPEN/CLOSED status to the BCM. Provides ground for the room lamp 2nd row. |
| Cargo lamp switch | Provides cargo lamp ON/OFF request to the BCM. |

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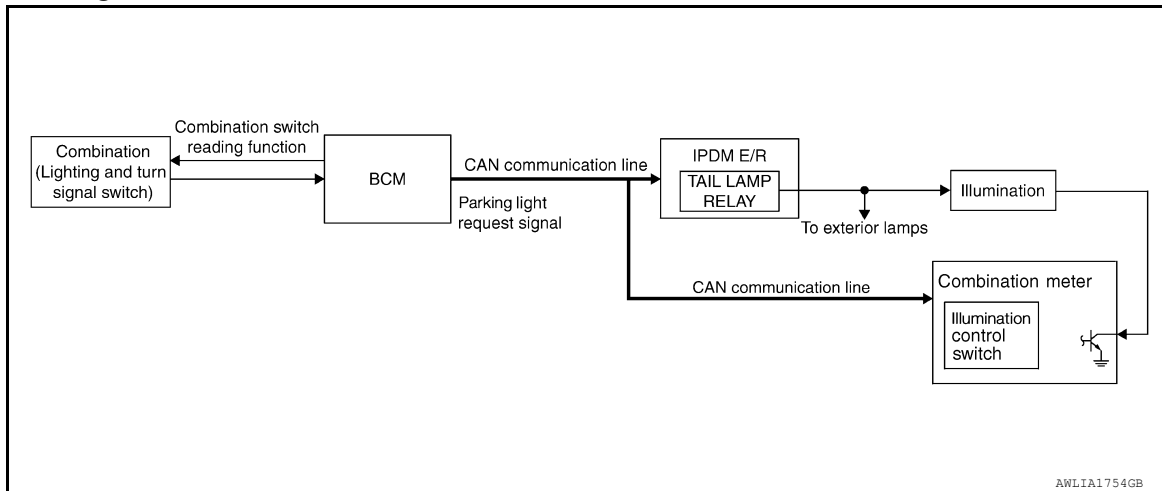
ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT POWER DOOR LOCKS]

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

INFOID:000000009480169

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 second 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.

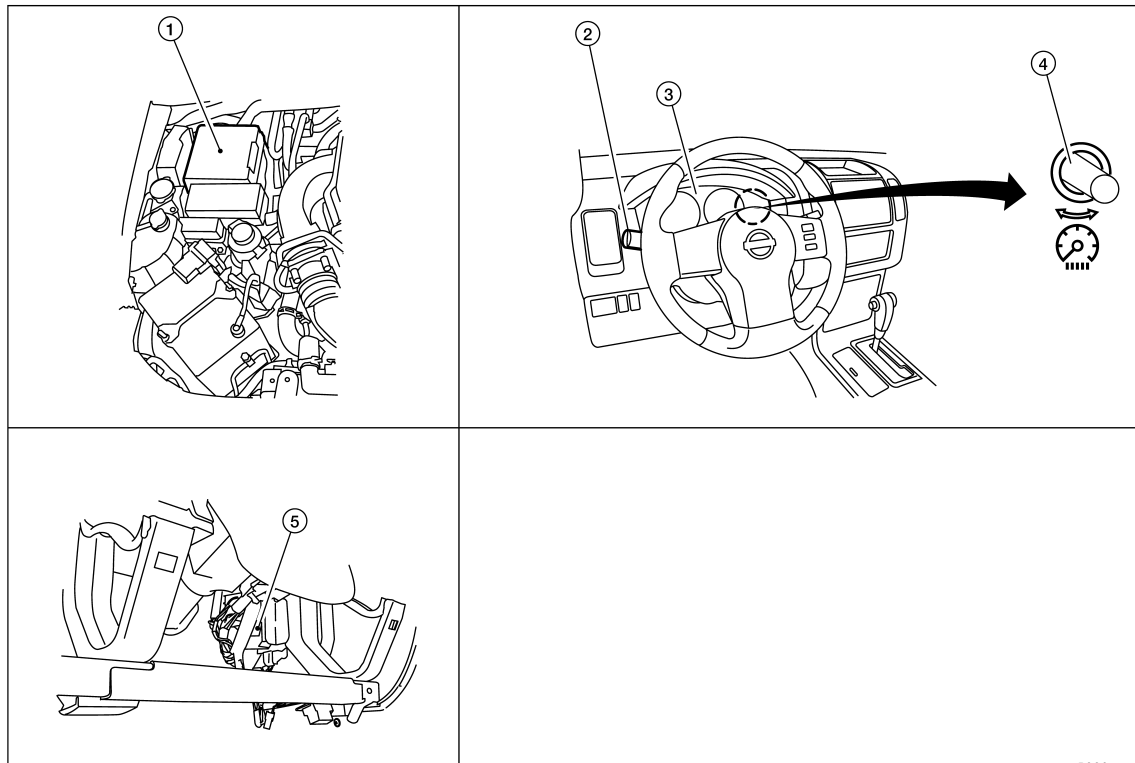
ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT POWER DOOR LOCKS]

Component Parts Location

INFOID:000000009480170



WKIA5029E

- | | | |
|---|---|--------------------------|
| 1. IPDM E/R E122, E124 | 2. Combination switch (lighting and turn signal switch) M28 | 3. Combination meter M28 |
| 4. Illumination control switch (built into combination meter) | 5. BCM M18, M20 (view with lower instrument panel LH removed) | |

Component Description

INFOID:000000009480171

| 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 (lighting and turn signal switch) provides input to the BCM about the lighting switch position. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITHOUT POWER DOOR LOCKS]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000010229282

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 | | |
| 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 | HEAD LAMP | | | x | x | x | | |
| Wiper and washer | WIPER | | | x | x | x | | |
| Turn signal and hazard warning lamps | FLASHER | | | x | x | | | |
| Air conditioner | AIR CONDITIONER | | | 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 | | |
| 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 | | | |

INT LAMP

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITHOUT POWER DOOR LOCKS]

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000010229283

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. |
| 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. |
| KEYLESS LOCK [On/Off] | Indicates condition of lock signal from keyfob. |
| KEYLESS UNLOCK [On/Off] | Indicates condition of unlock signal from keyfob. |

ACTIVE TEST

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

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. |
| ROOM LAMP OFF TIME SET | MODE7 | 0 sec. |
| | MODE6 | 5 sec. |
| | MODE5 | 4 sec. |
| | MODE4 | 3 sec. |
| | MODE3 | 2 sec. |
| | MODE2* | 1 sec. |
| | MODE1 | 0.5 sec. |

* : Initial setting

INTERIOR ROOM LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT POWER DOOR LOCKS]

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP

Diagnosis Procedure

INFOID:000000009480174

Regarding Wiring Diagram information, refer to [INL-95. "Wiring Diagram - Without Power Door Lock System"](#).

CAUTION:

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

- Fuse
- Interior room lamp bulbs

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY

Check voltage between interior room lamp connectors and ground.

| Component | (+) Connector | | (-) Ground | Voltage |
|---------------------|---------------|----------|------------|-----------------|
| | Connector | Terminal | | |
| Room lamp 2nd row | R10 | 2 | Ground | Battery voltage |
| Front room/map lamp | R9 | 1 | | |

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair the harness or connectors.

2. CHECK INTERIOR ROOM LAMP GROUND

1. Turn ignition switch OFF.
2. Disconnect BCM connectors M18, M19, room lamp 2nd row connector R10 and front room/map lamp connector R9.
3. Check continuity between interior room lamp connectors and ground while opening/closing the door.

| Component | (+) Connector | | (-) Ground | Door states | Continuity |
|---------------------|---------------|----------|------------|-------------|------------|
| | Connector | Terminal | | | |
| Room lamp 2nd row | R10 | 1 | Ground | Open | Yes |
| | | | | Closed | No |
| Front room/map lamp | R9 | 2 | | Open | Yes |
| | | | | Closed | No |

Is the inspection result normal?

YES >> Replace the interior room lamp. Refer to [INL-63. "Removal and Installation"](#).

NO >> GO TO 3

3. CHECK DOOR SWITCHES

Check the door switches. Refer to [INL-79. "Component Inspection \(Door Switch\)"](#).

Is the inspection result normal?

YES >> • Crew cab models, repair the harness or connectors between the interior room lamp and the door switches.
• King cab models, GO TO 4

NO >> Replace the door switch.

4. CHECK DOOR SWITCH GROUND (KING CAB)

INTERIOR ROOM LAMP

< DTC/CIRCUIT DIAGNOSIS >

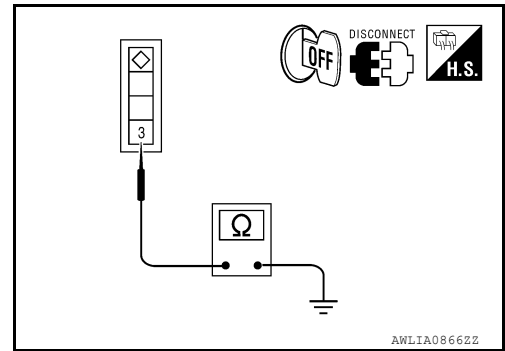
[WITHOUT POWER DOOR LOCKS]

Check continuity between door switch connectors and ground.

| Component | (+) Connector | | Terminal | (-) | Continuity |
|----------------------|---------------|----------|----------|--------|------------|
| | Connector | Terminal | | | |
| Front door switch LH | D213 | 3 | 3 | Ground | Yes |
| Front door switch RH | D314 | 3 | | | |

Is the inspection result normal?

- YES >> Repair the harness or connectors between the interior room lamp and the door switches.
- NO >> Repair the harness or connectors between the door switch and ground.



Component Inspection (Door Switch)

INFOID:000000009480175

CREW CAB

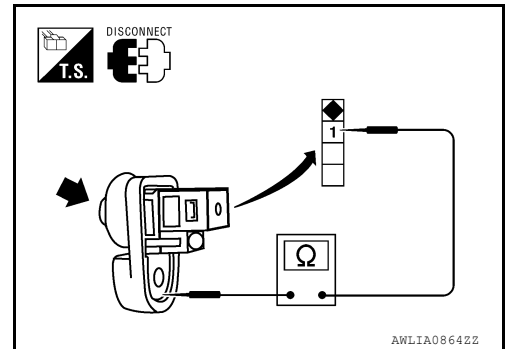
1. CHECK DOOR SWITCHES

1. Disconnect door switch.
2. Check continuity between door switch terminal 1 and ground.

| | Terminal | Condition | Continuity |
|-------------|------------|-----------|------------|
| Door switch | 1 – Ground | Open | Yes |
| | | Closed | No |

Is the inspection result normal?

- YES >> Inspection End
- NO >> Replace door switch.



KING CAB

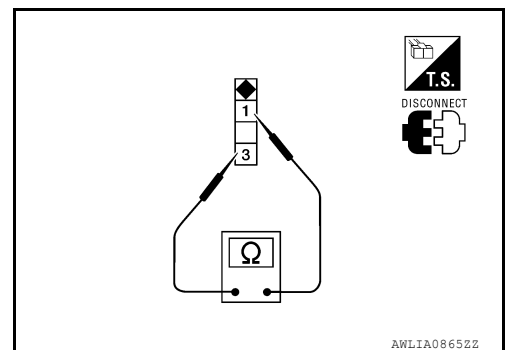
1. CHECK DOOR SWITCHES

1. Disconnect door switch.
2. Check continuity between door switch terminals 1 and 3.

| Item | Terminal | Condition | Continuity |
|---------------|----------|-----------|------------|
| Door switches | 1 – 3 | Open | Yes |
| | | Closed | No |

Is the inspection result normal?

- YES >> Inspection End
- NO >> Replace door switch.



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CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT POWER DOOR LOCKS]

CARGO LAMP CONTROL CIRCUIT

Description

INFOID:000000009480176

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

Diagnosis Procedure

INFOID:000000009480177

Regarding Wiring Diagram information, refer to [INL-95, "Wiring Diagram - Without Power Door Lock System"](#).

CAUTION:

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

- Fuse
- Cargo lamp bulb

1. CHECK CARGO LAMP OPERATION

Check the cargo lamp operation from the cargo lamp switch, the door switches, and a keyfob (if equipped).

Is the cargo lamp operative from all of the above switches and the keyfob (if equipped)?

- YES >> At this time, the cargo lamp operates normally.
- NO >> • Inoperative from all the above switches and the keyfob, GO TO 6
- Inoperative from cargo lamp switch only, GO TO 2
 - Inoperative from door switches only, refer to [DLK-27, "KING CAB : Description"](#) (king cab), [DLK-29, "CREW CAB : Description"](#) (crew cab).
 - Inoperative from keyfob only, refer to [DLK-51, "Description"](#).
 - Fixed ON, GO TO 2

2. CHECK CARGO LAMP SWITCH

Check the cargo lamp switch. Refer to [INL-82, "Component Inspection"](#).

Is the inspection result normal?

- YES >> • For inoperative from cargo lamp switch only, GO TO 3
- For fixed ON, GO TO 5
- NO >> Replace the cargo lamp switch.

3. CHECK CARGO LAMP SWITCH CIRCUIT OPEN

1. Disconnect BCM connector M18 and cargo lamp switch connector.
2. Check continuity between BCM connector M18 terminal 31 and cargo lamp switch connector M71 terminal 1.

| BCM | | Cargo lamp switch | | Continuity |
|-----------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M18 | 31 | M71 | 1 | Yes |

Is the inspection result normal?

- YES >> GO TO 4
- NO >> Repair harness or connectors.

4. CHECK CARGO LAMP SWITCH GROUND CIRCUIT

1. Check continuity between cargo lamp switch connector M71 terminal 3 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M71 | 3 | Ground | Yes |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-49, "Removal and Installation"](#).
- NO >> Repair harness or connectors.

CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT POWER DOOR LOCKS]

5. CHECK CARGO LAMP SWITCH CIRCUIT SHORT

1. Disconnect BCM connector M18 and cargo lamp switch connector.
2. Check continuity between BCM connector M18 terminal 31 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M18 | 31 | Ground | No |

Is the inspection result normal?

- YES >> GO TO 6
 NO >> Repair harness or connectors.

6. CHECK CARGO LAMP RELAY

Check the cargo lamp relay. Refer to [INL-82, "Component Inspection"](#).

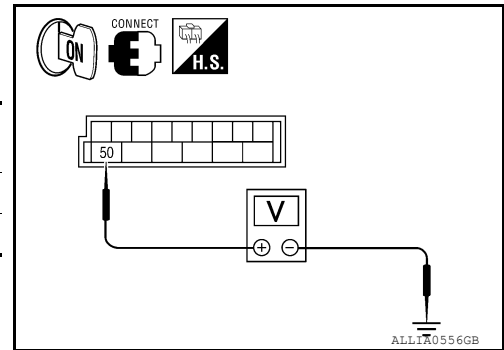
Is the inspection result normal?

- YES >> • For fixed OFF, GO TO 7
 • For fixed ON, GO TO 13
 NO >> Replace the cargo lamp relay.

7. CHECK CARGO LAMP RELAY CONTROL

While operating the cargo lamp switch, check voltage between BCM connector M19 terminal 50 and ground.

| Connector | Terminal | — | Cargo lamp switch | Voltage |
|-----------|----------|--------|-------------------|-----------------|
| M19 | 50 | Ground | ON | 0V |
| | | | OFF | Battery voltage |



Is the inspection result normal?

- YES >> GO TO 8
 NO >> GO TO 11

8. CHECK CARGO LAMP VOLTAGE

1. Disconnect the cargo lamp connector.
2. While operating the cargo lamp switch, check voltage between cargo lamp connector B161 terminal 3 and ground.

| Connector | Terminal | — | Cargo lamp switch | Voltage |
|-----------|----------|--------|-------------------|-----------------|
| B161 | 3 | Ground | ON | Battery voltage |

Is the inspection result normal?

- YES >> GO TO 9
 NO >> GO TO 10

9. CHECK CARGO LAMP GROUND CIRCUIT

1. While operating the cargo lamp switch, check voltage between cargo lamp connector B161 terminal 3 and terminal 2.

| Connector | Terminal (+) | Terminal (-) | Cargo lamp switch | Voltage |
|-----------|--------------|--------------|-------------------|-----------------|
| B161 | 3 | 2 | ON | Battery voltage |

Is the inspection result normal?

- YES >> Replace cargo lamp.
 NO >> Repair harness or connectors.

10. CHECK CARGO LAMP RELAY VOLTAGE PART 1

CARGO LAMP CONTROL CIRCUIT

[WITHOUT POWER DOOR LOCKS]

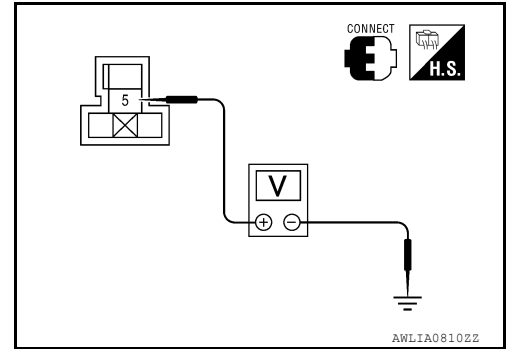
< DTC/CIRCUIT DIAGNOSIS >

Check voltage between cargo lamp relay connector M165 terminal 5 and ground.

| Cargo lamp relay | | Ground | Voltage |
|------------------|----------|--------|-----------------|
| Connector | Terminal | | Battery voltage |
| M165 | 5 | | |

Is the inspection result normal?

- YES >> Repair harness or connectors between cargo lamp relay and cargo lamp.
- NO >> Repair harness or connector between splice and cargo lamp relay.



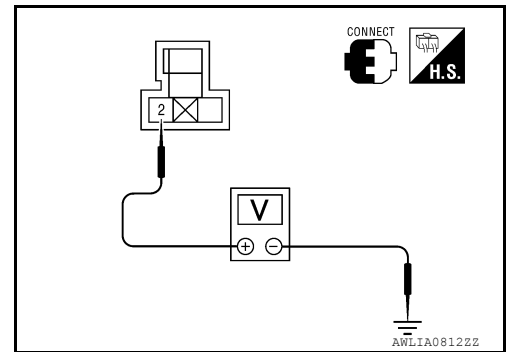
11. CHECK CARGO LAMP RELAY VOLTAGE PART 2

Check voltage between cargo lamp relay connector M165 terminal 2 and ground.

| Cargo lamp relay | | Ground | Voltage |
|------------------|----------|--------|-----------------|
| Connector | Terminal | | Battery voltage |
| M165 | 2 | | |

Is the inspection result normal?

- YES >> GO TO 12
- NO >> Repair harness or connectors.



12. CHECK CARGO LAMP RELAY CONTROL CIRCUIT OPEN

1. Disconnect BCM connector M19 and cargo lamp relay.
2. Check continuity between BCM connector M19 terminal 50 and cargo lamp relay connector M165 terminal 1.

| BCM | | Cargo lamp relay | | Continuity |
|-----------|----------|------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M19 | 50 | M165 | 1 | Yes |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-49. "Removal and Installation"](#).
- NO >> Repair harness or connectors.

13. CHECK CARGO LAMP RELAY CONTROL CIRCUIT SHORT

1. Disconnect BCM connector M19 and cargo lamp relay.
2. Check continuity between BCM connector M19 terminal 50 and ground.

| Connector | Terminal | — | Continuity |
|-----------|----------|--------|------------|
| M19 | 50 | Ground | No |

Is the inspection result normal?

- YES >> Replace BCM after making sure the cargo lamp power supply circuit is not shorted to voltage. Refer to [BCS-49. "Removal and Installation"](#).
- NO >> Repair harness or connectors.

Component Inspection

INFOID:000000009480178

CARGO LAMP SWITCH

1. CHECK CARGO LAMP SWITCH

CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

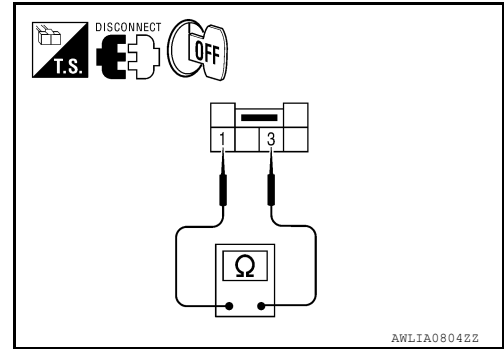
[WITHOUT POWER DOOR LOCKS]

1. Turn ignition switch OFF.
2. Disconnect cargo lamp switch connector.
3. Check continuity between cargo lamp switch terminals 1 and 3.

| Cargo lamp switch | | Condition | Continuity |
|-------------------|--|-----------|------------|
| Terminal | | | |
| 1 - 3 | | ON | Yes |
| | | OFF | No |

Is the inspection result normal?

- YES >> Inspection End
 NO >> Replace cargo lamp switch.



CARGO LAMP RELAY

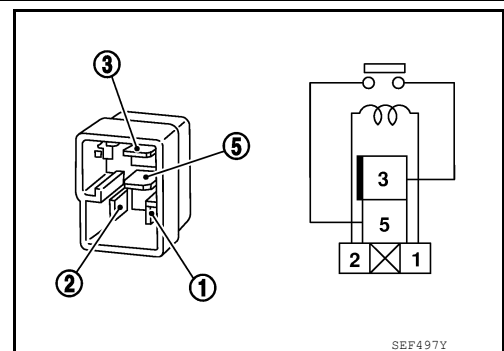
1. CHECK CARGO LAMP RELAY

1. Turn ignition switch OFF.
2. Disconnect cargo lamp relay.
3. Supply power to terminal 2 and ground to terminal 1 of the cargo lamp relay.
4. Check continuity between cargo lamp relay terminals 3 and 5.

| Terminal | | Condition | Continuity |
|----------|---|------------------------------|------------|
| 3 | 5 | | |
| | | No power and ground supplied | No |

Is the inspection result normal?

- YES >> Inspection End
 NO >> Replace cargo lamp relay.



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000010229407

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
- 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 |
| 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 |
| DOOR SW-RR | Rear door RH closed | Off |
| | Rear door RH opened | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

| Monitor Item | Condition | Value/Status | |
|----------------|---|--------------|-----|
| FAN ON SIG | Blower motor fan switch OFF | Off | A |
| | Blower motor fan switch ON | On | |
| FR FOG SW | Front fog lamp switch OFF | Off | B |
| | Front fog lamp switch ON | On | |
| FR WASHER SW | Front washer switch OFF | Off | C |
| | Front washer switch ON | On | |
| FR WIPER LOW | Front wiper switch OFF | Off | |
| | Front wiper switch LO | On | D |
| FR WIPER HI | Front wiper switch OFF | Off | |
| | Front wiper switch HI | On | |
| FR WIPER INT | Front wiper switch OFF | Off | E |
| | Front wiper switch INT | On | |
| FR WIPER STOP | Any position other than front wiper stop position | Off | F |
| | Front wiper stop position | On | |
| HAZARD SW | When hazard switch is not pressed | Off | |
| | When hazard switch is pressed | On | G |
| HEAD LAMP SW 1 | Headlamp switch OFF | Off | |
| | Headlamp switch 1st | On | H |
| HEAD LAMP SW 2 | Headlamp switch OFF | Off | |
| | Headlamp switch 1st | On | |
| HI BEAM SW | High beam switch OFF | Off | I |
| | High beam switch HI | On | |
| ID REGST FL1 | ID registration of front left tire incomplete | YET | J |
| | ID registration of front left tire complete | DONE | |
| ID REGST FR1 | ID registration of front right tire incomplete | YET | |
| | ID registration of front right tire complete | DONE | K |
| ID REGST RL1 | ID registration of rear left tire incomplete | YET | |
| | ID registration of rear left tire complete | DONE | |
| ID REGST RR1 | ID registration of rear right tire incomplete | YET | INL |
| | ID registration of rear right tire complete | DONE | |
| IGN ON SW | Ignition switch OFF or ACC | Off | M |
| | Ignition switch ON | On | |
| IGN SW CAN | Ignition switch OFF or ACC | Off | |
| | Ignition switch ON | On | N |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | 1 - 7 | |
| KEY CYL LK-SW | Door key cylinder LOCK position | Off | O |
| | 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 | P |
| KEY ON SW | Mechanical key is removed from key cylinder | Off | |
| | Mechanical key is inserted to key cylinder | On | |
| KEYLESS LOCK | LOCK button of key fob is not pressed | Off | |
| | LOCK button of key fob is pressed | On | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

| Monitor Item | Condition | Value/Status |
|----------------|---|-----------------------------------|
| KEYLESS PANIC | PANIC button of key fob is not pressed | Off |
| | PANIC button of key fob is pressed | On |
| KEYLESS UNLOCK | 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 | • 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 |
| REAR DEF SW | Rear window defogger switch OFF | Off |
| | Rear window defogger switch ON | 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 |

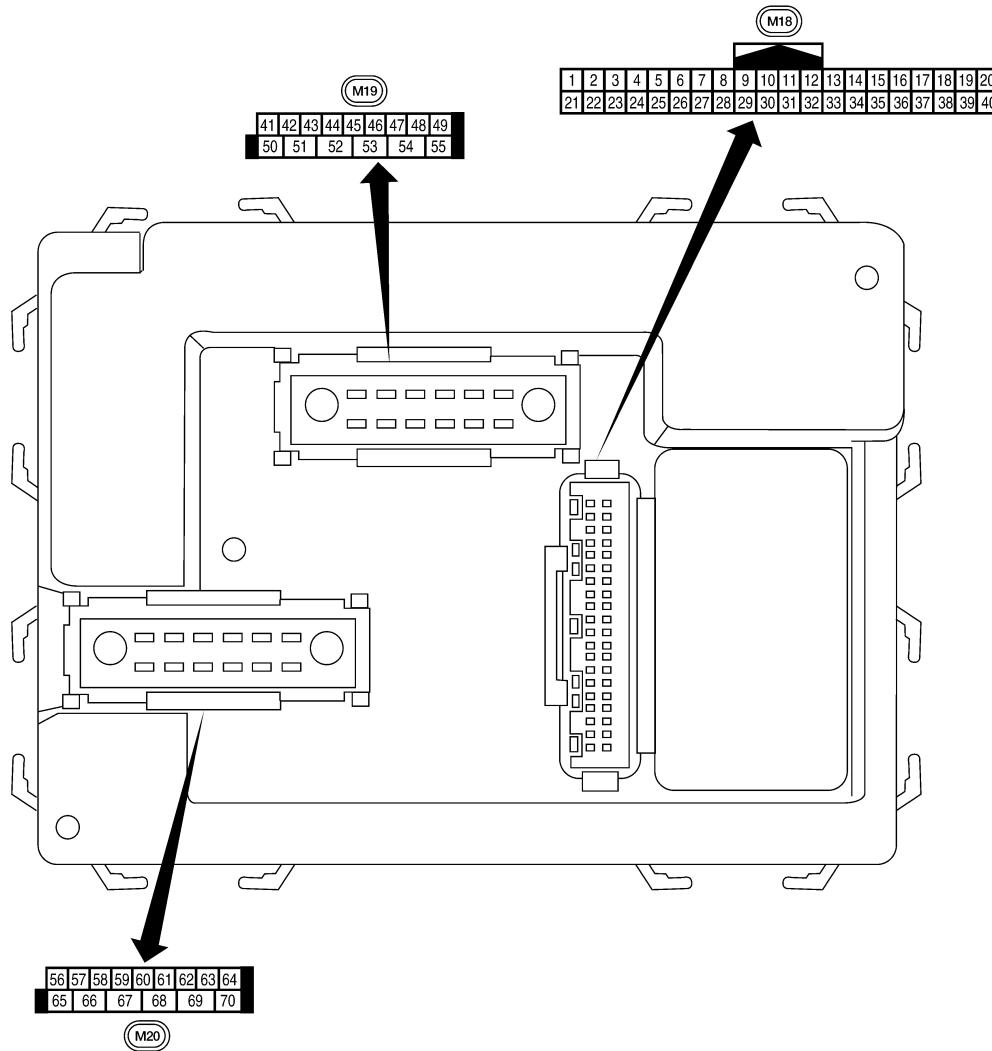
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

Terminal Layout

INFOID:000000010229408



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Physical Values


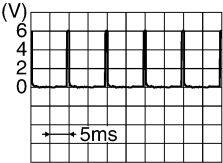

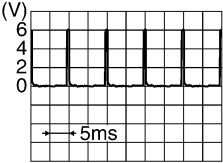
LIIA2443E

INFOID:000000010229409

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|--|---------------------|---------------------|--|---|
| | | | | Ignition switch | Operation or condition | |
| 1 | BR | Ignition keyhole illumination | Output | OFF | Door is locked (SW OFF) | Battery voltage |
| | | | | | Door is unlocked (SW ON) | 0V |
| 2 | P | 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 | SB | 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 | V | 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 | L | 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 | R | Combination switch input 1 | | | | |
| 7 | GR | Front door lock assembly LH (key cylinder switch) unlock | Input | OFF | ON (open, 2nd turn) | Momentary 1.5V |
| 8 | SB | Front door lock assembly LH (key cylinder switch) lock | | | OFF (closed) | 0V |
| | | | On (open) | Momentary 1.5V | | |
| 9 | LG | Brake sw | Input | OFF | OFF (brake pedal is not depressed) | 0V |
| | | | | | ON (brake pedal is depressed) | Battery voltage |
| 11 | G/B | Ignition switch (ACC or ON) | Input | ACC or ON | Ignition switch ACC or ON | Battery voltage |
| 12 | LG | Front door switch RH (All) | Input | OFF | ON (open) | 0V |
| | | Rear door switch upper RH (King Cab) | | | OFF (closed) | Battery voltage |
| | | Rear door switch lower RH (King Cab) | | | | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|---|---------------------|---------------------|---|---|
| | | | | Ignition switch | Operation or condition | |
| 13 | L | Rear door switch RH (Crew Cab) | Input | OFF | ON (open) | 0V |
| | | | | | OFF (closed) | Battery voltage |
| 15 | W | Tire pressure warning check connector | Input | OFF | — | 5V |
| 18 | BR | Remote keyless entry receiver and optical sensor (Ground) | Output | OFF | — | 0V |
| 19 | V | Remote keyless entry receiver (power supply) | Output | OFF | Ignition switch OFF | <p style="text-align: right; font-size: small;">LIIA1893E</p> |
| 20 | G | Remote keyless entry receiver signal (Signal) | Input | OFF | Stand-by (keyfob buttons released) | <p style="text-align: right; font-size: small;">LIIA1894E</p> |
| | | | | | When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed) | <p style="text-align: right; font-size: small;">LIIA1895E</p> |
| 21 | GR | NATS antenna amp. | Input | OFF → ON | Ignition switch (OFF → ON) | Just after turning ignition switch ON: Pointer of tester should move. |
| 23 | G | 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. |
| 27 | W | Compressor ON signal | Input | ON | A/C switch OFF | 5V |
| | | | | | A/C switch ON | 0V |
| 28 | R | Front blower monitor | Input | ON | Front blower motor OFF | Battery voltage |
| | | | | | Front blower motor ON | 0V |
| 29 | G | Hazard switch | Input | OFF | ON | 0V |
| | | | | | OFF | 5V |
| 31 | GR | Cargo lamp switch | Input | OFF | ON | 0V |
| | | | | | OFF | Battery voltage |

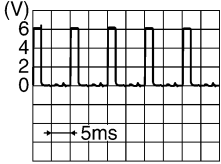
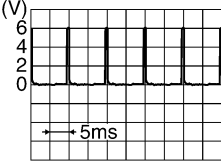
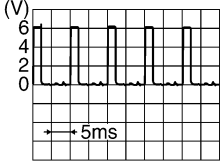
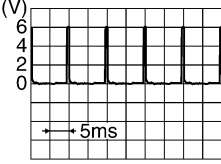
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

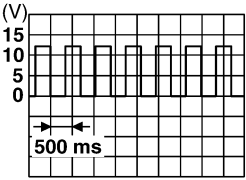
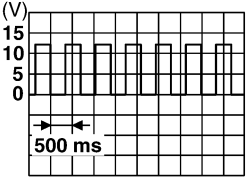
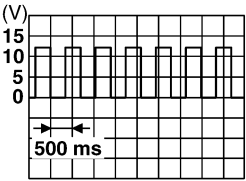
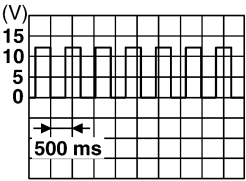
[WITHOUT POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|----------|------------|--------------------------------------|---------------------|---------------------|--|---|
| | | | | Ignition switch | Operation or condition | |
| 32 | BG | 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 | GR | 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 | G | 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 | BR | 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 | LG | Combination switch output 1 | | | | |
| 37 | B | Key switch | Input | OFF | Key inserted | Battery voltage |
| | | | | | Key removed | 0V |
| 38 | W/R | Ignition switch (ON) | Input | ON | — | Battery voltage |
| 39 | L | CAN-H | — | — | — | — |
| 40 | P | CAN-L | — | — | — | — |
| 41 | Y | Rear window defogger switch | Input | ON | Rear window defogger switch ON | 0V |
| | | | | | Rear window defogger switch OFF | 5V |
| 45 | V | Lock switch | Input | OFF | ON (lock) | 0V |
| | | | | | OFF | Battery voltage |
| 46 | LG | Unlock switch | Input | OFF | ON (unlock) | 0V |
| | | | | | OFF | Battery voltage |
| 47 | GR | Front door switch LH (All) | Input | OFF | ON (open) | 0V |
| | | Rear door switch upper LH (King Cab) | | | OFF (closed) | Battery voltage |
| | | Rear door switch lower LH (King Cab) | | | | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) | |
|----------|------------|--------------------------------------|---------------------|---------------------|--|---|----|
| | | | | Ignition switch | Operation or condition | | |
| 48 | P | Rear door switch LH (Crew Cab) | Input | OFF | ON (open) | 0V | |
| | | | | | OFF (closed) | Battery voltage | |
| 50 | P | Cargo lamp | Output | OFF | Any door open (ON) | 0V | |
| | | | | | All doors closed (OFF) | Battery voltage | |
| 51 | BG | Trailer turn signal (right) | Output | ON | Turn right ON |  <p style="text-align: right; font-size: small;">SKIA3009J</p> | |
| 52 | LG | Trailer turn signal (left) | Output | ON | Turn left ON |  <p style="text-align: right; font-size: small;">SKIA3009J</p> | |
| 56 | R/Y | Battery saver output | Output | OFF | 10 minutes after ignition switch is turned OFF | 0V | |
| | | | | ON | — | Battery voltage | |
| 57 | R/Y | Battery power supply | Input | — | — | Battery voltage | |
| 58 | W | Optical sensor | Input | ON | When optical sensor is illuminated | 3.1V or more | |
| | | | | | When optical sensor is not illuminated | 0.6V or less | |
| 59 | GR | Front door lock assembly LH (unlock) | Output | OFF | OFF (neutral) | 0V | |
| | | | | | ON (unlock) | Battery voltage | |
| 60 | LG | Turn signal (left) | Output | ON | Turn left ON |  <p style="text-align: right; font-size: small;">SKIA3009J</p> | |
| 61 | G | Turn signal (right) | Output | ON | Turn right ON |  <p style="text-align: right; font-size: small;">SKIA3009J</p> | |
| 63 | BR | 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 | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

| Terminal | Wire color | Item | Signal input/output | Measuring condition | | Reference value or waveform (Approx.) |
|-----------------|------------|--|---------------------|---------------------|---|---------------------------------------|
| | | | | Ignition switch | Operation or condition | |
| 66 | L | Front door lock actuator RH, rear door lock actuators LH/RH (unlock) | Output | OFF | OFF (neutral) | 0V |
| | | | | | ON (unlock) | Battery voltage |
| 67 | B | Ground | Input | ON | — | 0V |
| 68 ¹ | O | 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 |
| 68 ² | SB | 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 | P | Power window power supply (BAT) | Output | OFF | — | Battery voltage |
| 70 | W | Battery power supply | Input | OFF | — | Battery voltage |

1: King cab

2: Crew cab

Fail Safe

INFOID:0000000010229410

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:0000000010229411

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 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

| Priority | DTC | |
|----------|--|---------------------------------|
| 3 | <ul style="list-style-type: none"> • C1729: VHCL SPEED SIG ERR • C1735: IGNITION SIGNAL | A |
| 4 | <ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL | B C D E F G H |

DTC Index

INFOID:000000010229412

NOTE:

Details of time display

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

| CONSULT display | Fail-safe | Low tire pressure warning lamp ON | Reference page |
|--|-----------|-----------------------------------|------------------------|
| No DTC is detected. further testing may be required. | — | — | — |
| U1000: CAN COMM CIRCUIT | — | — | BCS-26 |
| B2190: NATS ANTenna AMP | — | — | SEC-18 |
| B2191: DIFFERENCE OF KEY | — | — | SEC-21 |
| B2192: ID DISCORD BCM-ECM | — | — | SEC-22 |
| B2193: CHAIN OF BCM-ECM | — | — | SEC-24 |
| C1708: [NO DATA] FL | — | X | WT-15 |
| C1709: [NO DATA] FR | — | X | WT-15 |
| C1710: [NO DATA] RR | — | X | WT-15 |
| C1711: [NO DATA] RL | — | X | WT-15 |
| C1712: [CHECKSUM ERR] FL | — | X | WT-17 |
| C1713: [CHECKSUM ERR] FR | — | X | WT-17 |
| C1714: [CHECKSUM ERR] RR | — | X | WT-17 |
| C1715: [CHECKSUM ERR] RL | — | X | WT-17 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT POWER DOOR LOCKS]

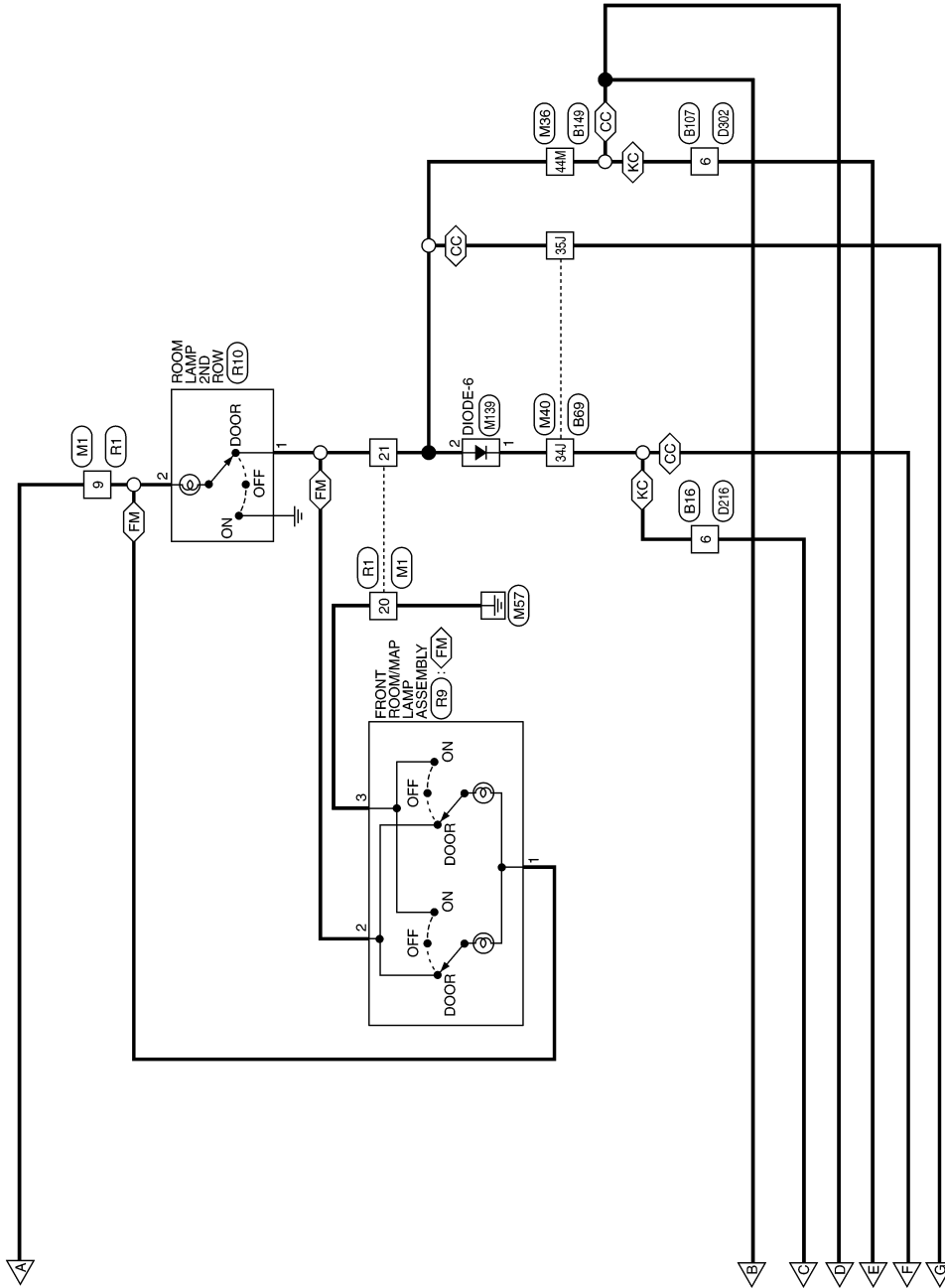
| CONSULT display | Fail-safe | Low tire pressure warning lamp ON | Reference page |
|---------------------------|-----------|-----------------------------------|-----------------------|
| C1716: [PRESSDATA ERR] FL | — | X | WT-19 |
| C1717: [PRESSDATA ERR] FR | — | X | WT-19 |
| C1718: [PRESSDATA ERR] RR | — | X | WT-19 |
| C1719: [PRESSDATA ERR] RL | — | X | WT-19 |
| C1720: [CODE ERR] FL | — | X | WT-17 |
| C1721: [CODE ERR] FR | — | X | WT-17 |
| C1722: [CODE ERR] RR | — | X | WT-17 |
| C1723: [CODE ERR] RL | — | X | WT-17 |
| C1724: [BATT VOLT LOW] FL | — | X | WT-17 |
| C1725: [BATT VOLT LOW] FR | — | X | WT-17 |
| C1726: [BATT VOLT LOW] RR | — | X | WT-17 |
| C1727: [BATT VOLT LOW] RL | — | X | WT-17 |
| C1729: VHCL SPEED SIG ERR | — | X | WT-21 |
| C1735: IGNITION SIGNAL | — | X | WT-22 |

INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

CC : CREW CAB
 FM : WITH FRONT MAP LAMPS
 KC : KING CAB



ABLWA2386GB

INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

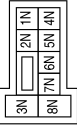
INTERIOR ROOM LAMP CONNECTORS - WITHOUT POWER DOOR LOCK SYSTEM

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



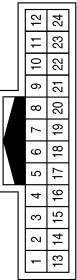
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 15P | W/R | -- |

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



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

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/Y | -- |
| 20 | B | -- |
| 21 | BR | -- |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 47 | GR | DOOR SW (DR) |
| 48 | P | DOOR SW (RL) |
| 50 | P | CARGO LAMP OUTPUT |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------|
| 12 | LG | DOOR SW (AS) |
| 13 | L | DOOR SW (RR) |
| 31 | GR | CARGO LAMP SW |
| 37 | B | KEY SW |
| 38 | W/R | IGN SW |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | W | -- |

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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

| | |
|-----------------|------------|
| Connector No. | M27 |
| Connector Name | KEY SWITCH |
| Connector Color | WHITE |



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

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 57 | R/Y | BAT (FUSE) |
| 67 | B | GND (POWER) |
| 70 | W | BAT (F/L) |

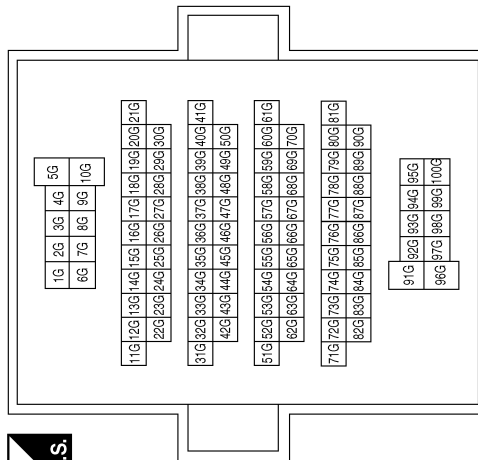
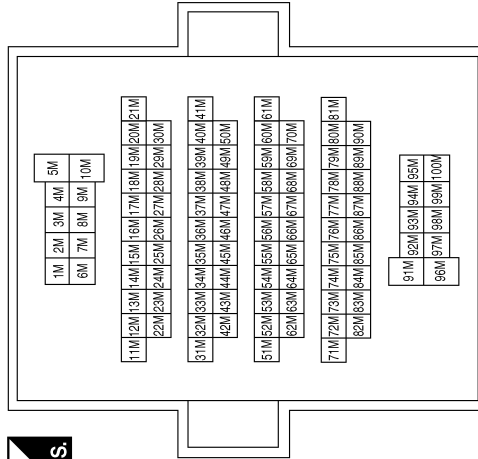
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|-----------------|--------------|
| Connector No. | M36 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 44M | R | - |
| 45M | G | - |
| 49M | LG | - |
| 50M | L | - |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 35G | Y | - |

ABLIA5628GB

INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

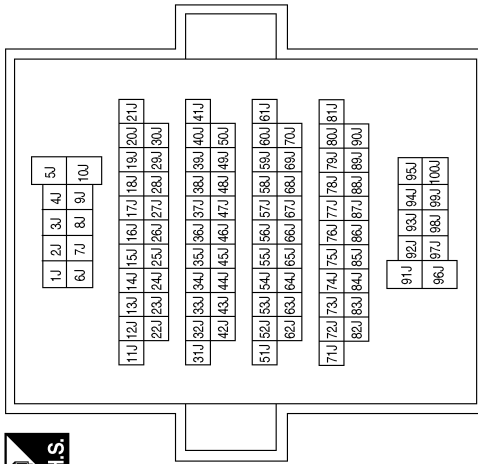
| | |
|-----------------|-------------------|
| Connector No. | M71 |
| Connector Name | CARGO LAMP SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | GR | - |
| 3 | B | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 34J | L | - |
| 35J | R | - |
| 40J | P | - |
| 41J | GR | - |

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



| | |
|-----------------|--------------|
| Connector No. | E10 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | W | - |

| | |
|-----------------|------------------|
| Connector No. | M165 |
| Connector Name | CARGO LAMP RELAY |
| Connector Color | BLUE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | - |
| 2 | R/Y | - |
| 3 | G | - |
| 5 | R/Y | - |

| | |
|-----------------|---------|
| Connector No. | M139 |
| Connector Name | DIODE-6 |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | BR | - |

ABLIA5629GB

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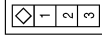
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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

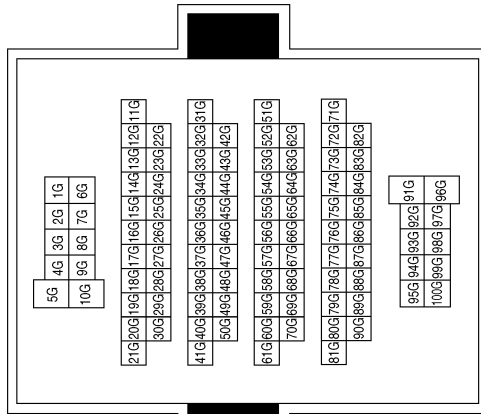
| | |
|-----------------|------------------------------------|
| Connector No. | B8 |
| Connector Name | FRONT DOOR SWITCH LH (CREW CAB) |
| Connector Color | WHITE |



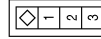
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | GR | - |

| | | | | | |
|--------------|-----|---------------|---|-------------|---|
| Terminal No. | 35G | Color of Wire | Y | Signal Name | - |
|--------------|-----|---------------|---|-------------|---|

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

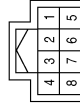


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|-----------------|---------------------|
| Connector No. | B18 |
| Connector Name | REAR DOOR SWITCH LH |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | B16 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | L | - |
| 7 | B | - |
| 8 | GR | - |

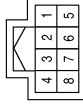
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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

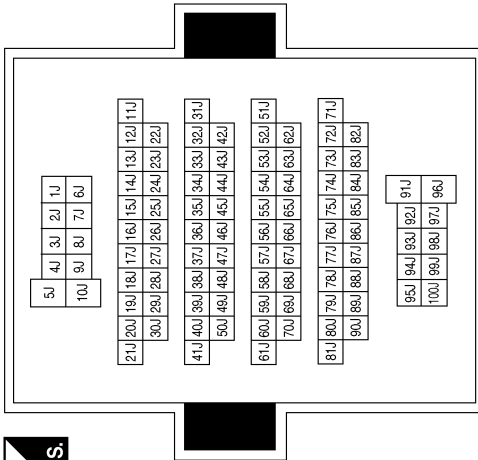
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| Connector No. | B107 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | R | - |
| 7 | B | - |
| 8 | LG | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 34J | L | - |
| 35J | R | - |
| 40J | P | - |
| 41J | GR | - |

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



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



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

| | |
|-----------------|---------------------------------|
| Connector No. | B108 |
| Connector Name | FRONT DOOR SWITCH RH (CREW CAB) |
| Connector Color | WHITE |



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

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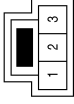


INTERIOR ROOM LAMP

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

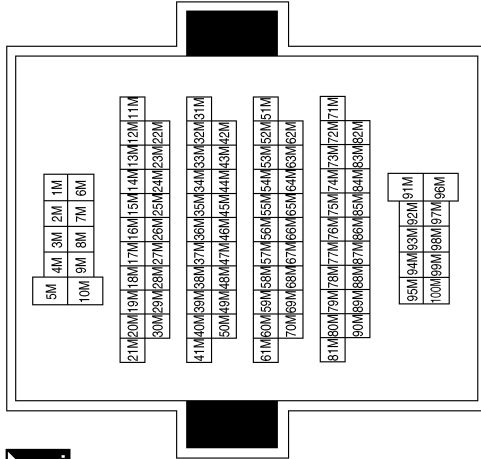
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|-----------------|---------------------------------|
| Connector No. | B161 |
| Connector Name | HIGH-MOUNTED STOP LAMP ASSEMBLY |
| Connector Color | WHITE |



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

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 44M | R | - |
| 45M | G | - |
| 49M | LG | - |
| 50M | L | - |

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

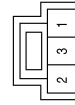


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|-----------------|-------------------|
| Connector No. | R10 |
| Connector Name | ROOM LAMP 2ND ROW |
| Connector Color | WHITE |



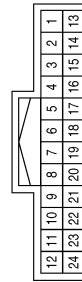
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | BR | - |
| 2 | R/Y | - |

| | |
|-----------------|------------------------------|
| Connector No. | R9 |
| Connector Name | FRONT ROOM/MAP LAMP ASSEMBLY |
| Connector Color | WHITE |



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

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R/Y | - |
| 20 | B | - |
| 21 | BR | - |

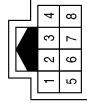
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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

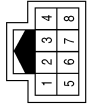
[WITHOUT POWER DOOR LOCKS]

| | |
|-----------------|--------------|
| Connector No. | D302 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



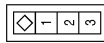
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | R | - |
| 7 | B | - |
| 8 | LG | - |

| | |
|-----------------|--------------|
| Connector No. | D216 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



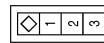
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | L | - |
| 7 | B | - |
| 8 | LG | - |

| | |
|-----------------|---------------------------------|
| Connector No. | D213 |
| Connector Name | FRONT DOOR SWITCH LH (KING CAB) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | LG | - |
| 3 | B | - |

| | |
|-----------------|---------------------------------|
| Connector No. | D314 |
| Connector Name | FRONT DOOR SWITCH RH (KING CAB) |
| Connector Color | WHITE |



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

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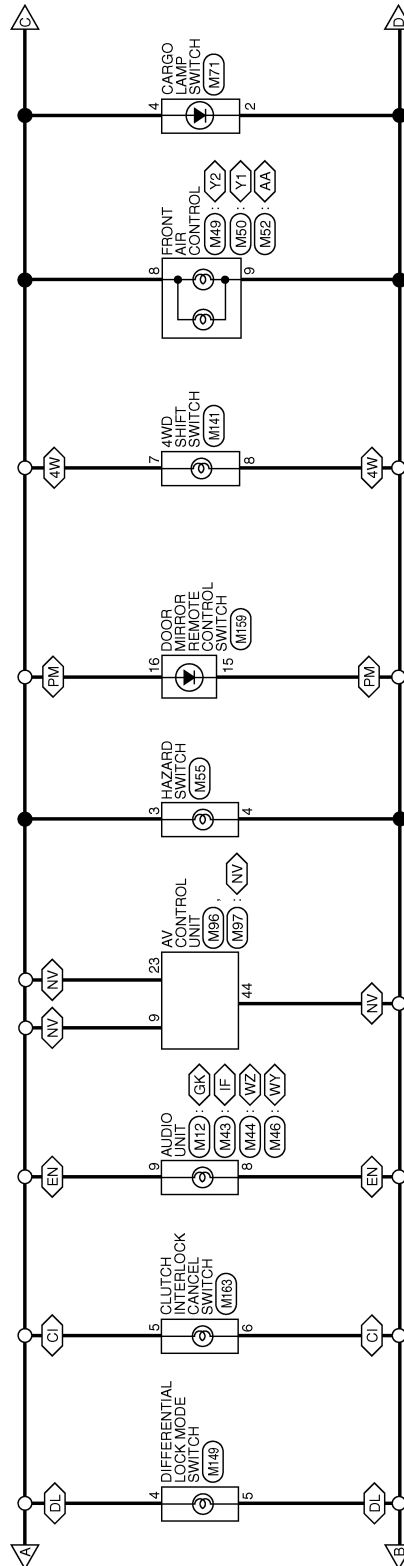
INL

ILLUMINATION

[WITHOUT POWER DOOR LOCKS]

< WIRING DIAGRAM >

- <4W> : WITH 4-WHEEL DRIVE
- <AA> : WITH AUTO A/C
- <BA> : WITH BASE AUDIO SYSTEM
- <CI> : WITH CLUTCH INTERLOCK CANCEL SWITCH
- <DL> : WITH ELECTRONIC LOCKING REAR DIFFERENTIAL
- <EN> : WITHOUT NAVI
- <GK> : WITH BASE AUDIO SYSTEM FOR MEXICO
- <IF> : WITH BASE AUDIO SYSTEM EXCEPT FOR MEXICO
- <NV> : WITH NAVI
- <PM> : WITH POWER OUTSIDE MIRRORS
- <WY> : WITH DISPLAY AUDIO AND AMPLIFIER
- <WZ> : WITH DISPLAY AUDIO WITHOUT AMPLIFIER
- <Y1> : MANUAL WITH TYPE 1
- <Y2> : MANUAL WITH TYPE 2



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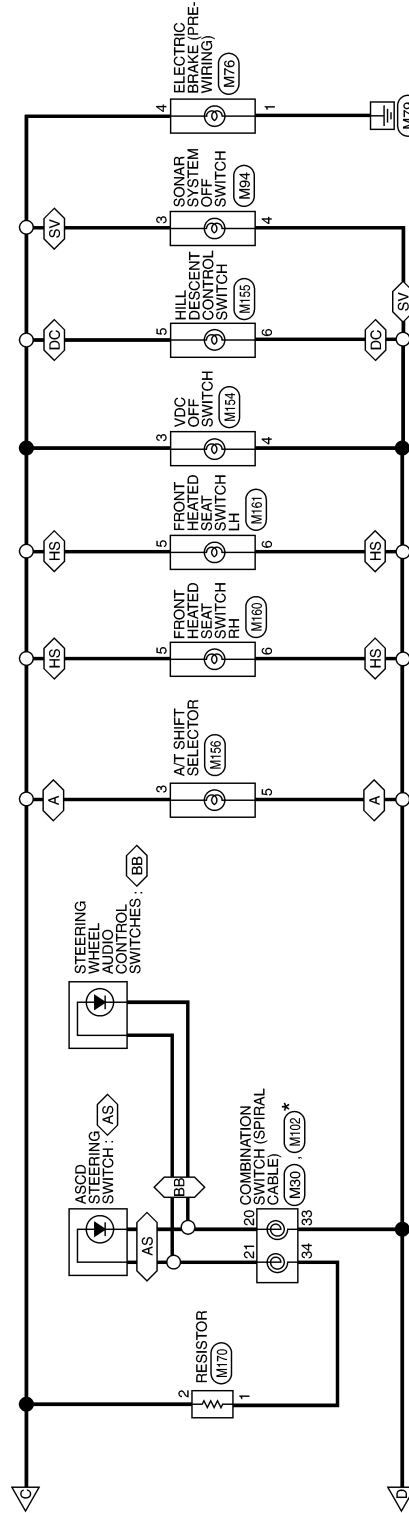
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ILLUMINATION

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

- <A> : WITH A/T
- <AS> : WITH ASCD
- <BB> : WITH BLUETOOTH
- <DC> : WITH HILL DESCENT CONTROL AND HILL START ASSIST
- <HS> : WITH HEATED SEATS
- <SV> : WITH SONAR SYSTEM



* : THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

ABLWA2030GB

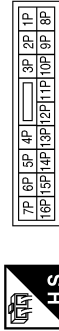
ILLUMINATION

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

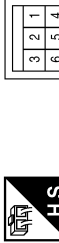
ILLUMINATION CONNECTORS

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



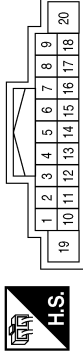
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8P | R/Y | - |
| 15P | W/R | - |

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



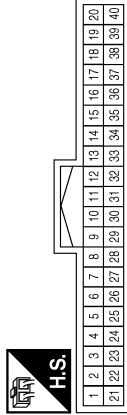
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | W | - |

| | |
|-----------------|---|
| Connector No. | M12 |
| Connector Name | AUDIO UNIT (BASE AUDIO SYSTEM - FOR MEXICO) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | GR | ILL CONT |
| 9 | R | LIGHT SW |

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



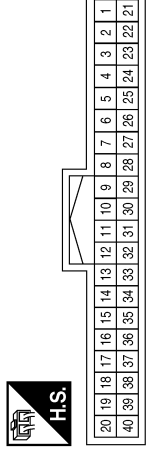
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | P | INPUT 5 |
| 3 | SB | INPUT 4 |
| 4 | V | INPUT 3 |
| 5 | L | INPUT 2 |
| 6 | R | INPUT 1 |
| 32 | BG | OUTPUT 5 |
| 33 | GR | OUTPUT 4 |
| 34 | G | OUTPUT 3 |
| 35 | BR | OUTPUT 2 |
| 36 | LG | OUTPUT 1 |
| 38 | W/R | 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 | BAT (F/L) |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 3 | R/Y | BATTERY |
| 11 | P | CAN-L |
| 12 | L | CAN+H |
| 13 | GR | GROUND |
| 22 | BR | ILLUMINATION CONTROL |
| 23 | B | POWER GND |

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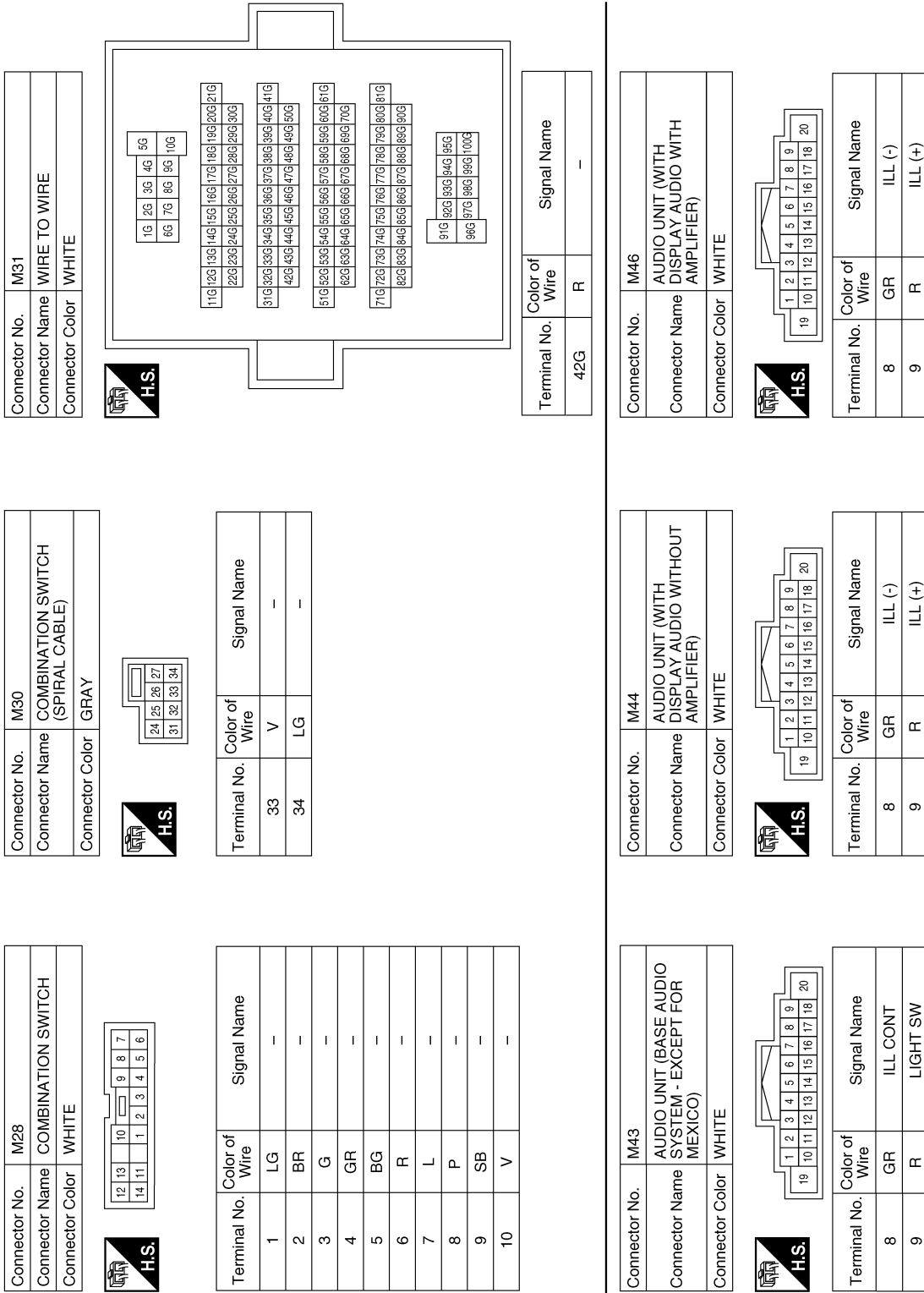
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ILLUMINATION

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]



ABLIA5648GB

ILLUMINATION

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]

| | |
|-----------------|--------------------------------------|
| Connector No. | M52 |
| Connector Name | FRONT AIR CONTROL (WITH AUTO A/C) |
| Connector Color | BLACK |

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | G | ILLUM+ |
| 9 | BR | ILLUM- |

| | |
|-----------------|---|
| Connector No. | M50 |
| Connector Name | FRONT AIR CONTROL (MANUAL WITH TYPE 1) |
| Connector Color | BLACK |

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | G | ILLUM+ |
| 9 | BR | ILLUM- |

| | |
|-----------------|---|
| Connector No. | M49 |
| Connector Name | FRONT AIR CONTROL (MANUAL WITH TYPE 2) |
| Connector Color | BLACK |

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8 | G | ILLUM+ |
| 9 | BR | ILLUM- |

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

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



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

| | |
|-----------------|-------------------|
| Connector No. | M71 |
| Connector Name | CARGO LAMP SWITCH |
| Connector Color | WHITE |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | P | - |
| 4 | V | - |

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

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



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

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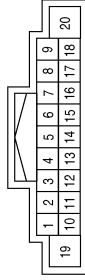
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ILLUMINATION

< WIRING DIAGRAM >

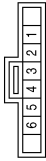
[WITHOUT POWER DOOR LOCKS]

| | |
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| Connector No. | M96 |
| Connector Name | AV CONTROL UNIT |
| Connector Color | WHITE |



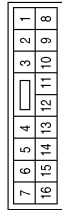
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | R | LIGHT SW |

| | |
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| Connector No. | M94 |
| Connector Name | SONAR SYSTEM OFF SWITCH |
| Connector Color | GRAY |



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

| | |
|-----------------|--------------|
| Connector No. | M91 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | P | - |
| 11 | L | - |

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



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

| | |
|-----------------|-----------------------------------|
| Connector No. | M102 |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 20 | W | - |
| 21 | R | - |

| | |
|-----------------|-----------------|
| Connector No. | M97 |
| Connector Name | AV CONTROL UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 23 | P | MR OUTPUT |
| 44 | GR | ILL CONT |

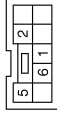
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ILLUMINATION

< WIRING DIAGRAM >

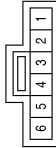
[WITHOUT POWER DOOR LOCKS]

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|-----------------|-----------------------------|
| Connector No. | M155 |
| Connector Name | HILL DESCENT CONTROL SWITCH |
| Connector Color | WHITE |



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

| | |
|-----------------|----------------|
| Connector No. | M154 |
| Connector Name | VDC OFF SWITCH |
| Connector Color | GRAY |



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

| | |
|-----------------|-------------------------------|
| Connector No. | M149 |
| Connector Name | DIFFERENTIAL LOCK MODE SWITCH |
| Connector Color | WHITE |



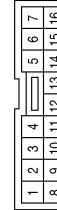
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | R | - |
| 5 | BR | - |

| | |
|-----------------|-----------------------------|
| Connector No. | M160 |
| Connector Name | FRONT HEATED SEAT SWITCH RH |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | SB | - |
| 6 | BG | - |

| | |
|-----------------|-----------------------------------|
| Connector No. | M159 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 15 | BR | - |
| 16 | R | - |

| | |
|-----------------|--------------------|
| Connector No. | M156 |
| Connector Name | A/T SHIFT SELECTOR |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R | - |
| 5 | BR | - |

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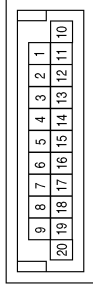
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ILLUMINATION

< WIRING DIAGRAM >

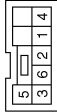
[WITHOUT POWER DOOR LOCKS]

| | |
|-----------------|---------------------|
| Connector No. | M167 |
| Connector Name | JOINT CONNECTOR-M02 |
| Connector Color | BLUE |



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

| | |
|-----------------|--------------------------------|
| Connector No. | M163 |
| Connector Name | CLUTCH INTERLOCK CANCEL SWITCH |
| Connector Color | WHITE |



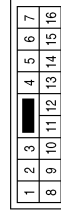
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | R | - |
| 6 | BR | - |

| | |
|-----------------|-----------------------------|
| Connector No. | M161 |
| Connector Name | FRONT HEATED SEAT SWITCH LH |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | E26 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10 | P | - |
| 11 | L | - |

| | |
|-----------------|--------------|
| Connector No. | E10 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | W | - |

| | |
|-----------------|----------|
| Connector No. | M170 |
| Connector Name | RESISTOR |
| Connector Color | BLACK |



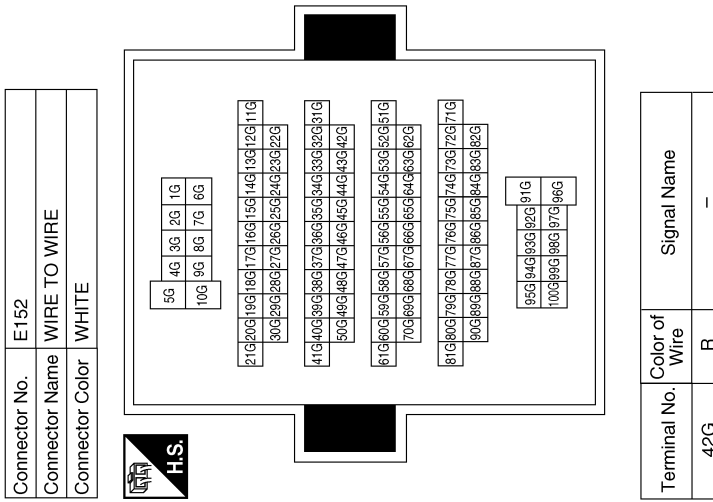
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | LG | - |
| 2 | R | - |

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ILLUMINATION

< WIRING DIAGRAM >

[WITHOUT POWER DOOR LOCKS]



| | |
|-----------------|--|
| 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 |
|--------------|---------------|-------------|
| 57 | GR | TAIL LAMP |
| 59 | B | GND (POWER) |

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

| | | | | | |
|----|----|----|----|----|----|
| 42 | 41 | 40 | 39 | 38 | 37 |
| 48 | 47 | 46 | 45 | 44 | 43 |



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

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INL

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT POWER DOOR LOCKS]

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000009480187

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 |
|---|--|---|
| interior room lamps do not turn ON/OFF <ul style="list-style-type: none">Room lamp 2nd rowFront room/map lamp assembly | <ul style="list-style-type: none">Harness between fuse block (J/B) and each interior room lampHarness between each interior room lamp and door switchesDoor switches | Interior room lamp Refer to INL-78 . |
| Cargo lamp does not turn ON/OFF | <ul style="list-style-type: none">Harness between fuse block (J/B) and cargo lamp relayHarness between cargo lamp relay and cargo lampHarness between BCM and cargo lamp relayBCM | Cargo lamp control circuit Refer to INL-80 . |

PRECAUTION

PRECAUTIONS

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

INFOID:000000010126947

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 three minutes before performing any service.

Precaution for Work

INFOID:000000009480189

- 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.

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PREPARATION

< PREPARATION >

[WITHOUT POWER DOOR LOCKS]

PREPARATION

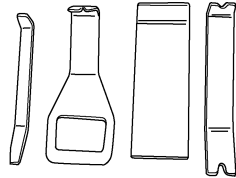
PREPARATION

Special Service Tool

INFOID:000000009480190

The actual shape of the tools may differ from those illustrated here.

| Tool number (TechMate No.) Tool name | Description |
|--|--------------------------|
| — (J-46534) Trim Tool Set | Removing trim components |



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INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

[WITHOUT POWER DOOR LOCKS]

REMOVAL AND INSTALLATION

INTERIOR ROOM LAMP

Removal and Installation

INFOID:000000009480191

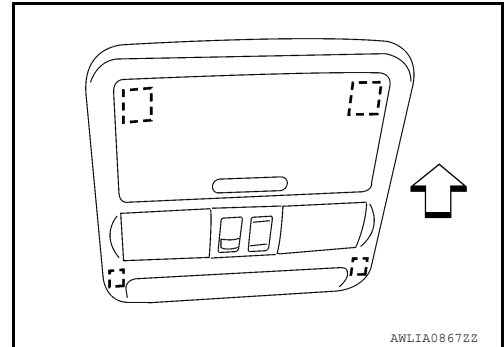
FRONT ROOM/MAP LAMP ASSEMBLY (IF EQUIPPED)

Removal

The front room/map lamp assembly is replaced as part of the roof console. Refer to [INT-25. "Removal and Installation"](#).

⇐: Front

⊠: Metal clip



Installation

Installation is in the reverse order of removal.

Bulb or Lens Replacement

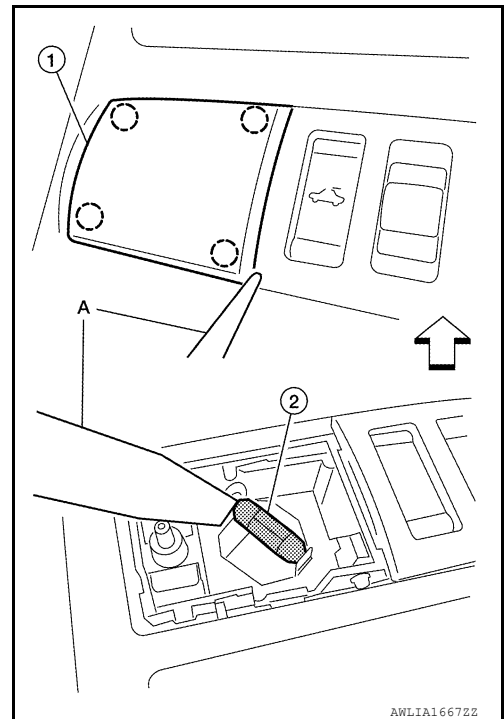
1. Using a suitable tool (A), remove the front room/map lamp RH and/or LH lenses (1) as necessary.

⇐: Front

⊙: Pawl

2. Release one side of the bulb (2) from the tab using a suitable tool, then pull straight downward to remove.

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



3. Install the new bulb into the socket tabs.
4. Install the front room/map lamp lens(es).

VANITY LAMP

Removal

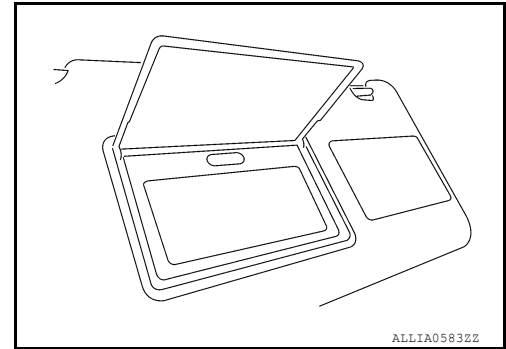
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INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

[WITHOUT POWER DOOR LOCKS]

The vanity lamp is replaced as part of the sun visor assembly. Refer to [INT-25. "Removal and Installation"](#).



Installation

Installation is in the reverse order of removal.

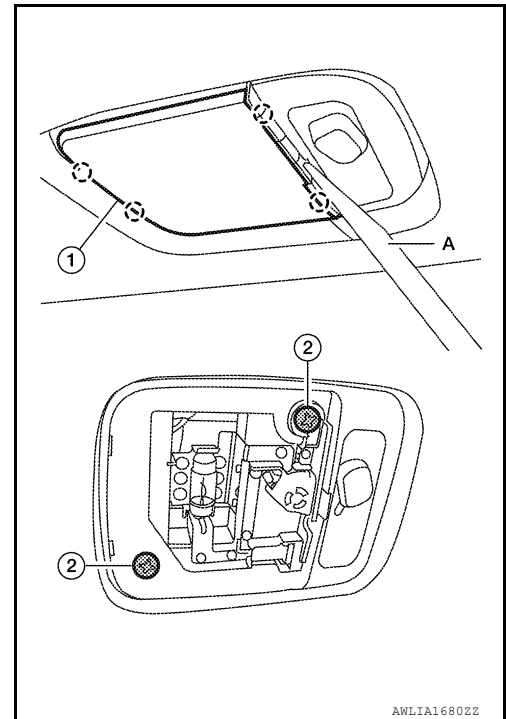
Bulb Replacement

The vanity mirror lamp bulb is replaced as part of the sun visor assembly. Refer to [INT-25. "Removal and Installation"](#).

ROOM LAMP 2ND ROW

Removal

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



Installation

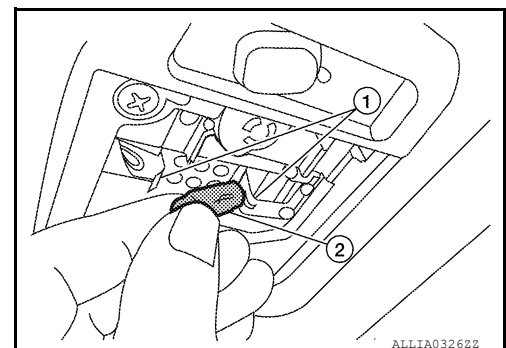
Installation is in the reverse order of removal.

Bulb or Lens Replacement

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

Room lamp bulb

: 12V - 8W



INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

[WITHOUT POWER DOOR LOCKS]

4. Install the room lamp lens.

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ILLUMINATION

< REMOVAL AND INSTALLATION >

[WITHOUT POWER DOOR LOCKS]

ILLUMINATION

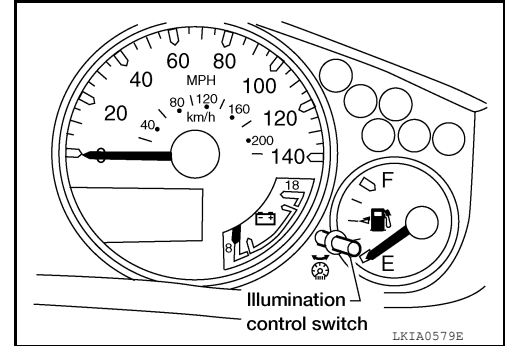
Removal and Installation

INFOID:000000009480192

ILLUMINATION CONTROL SWITCH

Removal

The illumination control switch is replaced as a part of the combination meter. Refer to [MWI-90, "Removal and Installation"](#).



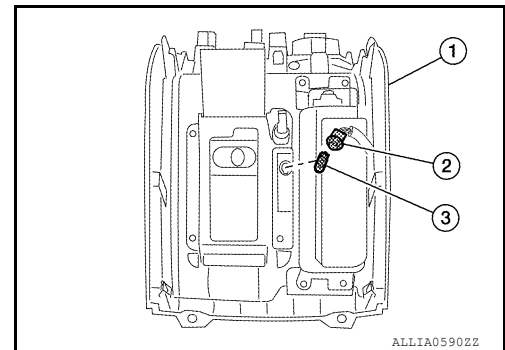
Installation

Installation is in the reverse order of removal.

SHIFT SELECTOR FINISHER LAMP

Removal

1. Remove shift selector finisher from center console. Refer to [IP-25, "Removal and Installation"](#).
2. Rotate shift selector finisher lamp socket (2) with bulb (3) counterclockwise, then pull away from finisher (1).



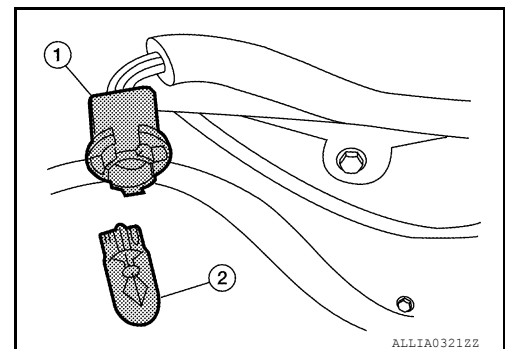
Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Remove shift selector finisher from center console. Refer to [IP-25, "Removal and Installation"](#).
2. Remove shift selector finisher lamp socket (1), then pull bulb (2) straight out away from socket.
3. Install the bulb (2) into the shift selector finisher socket (1).

AT finisher lamp bulb : 12V - 3W



4. Install shift selector finisher in center console. Refer to [IP-25, "Removal and Installation"](#).

BULB SPECIFICATIONS

< SERVICE DATA AND SPECIFICATIONS (SDS)

[WITHOUT POWER DOOR LOCKS]

SERVICE DATA AND SPECIFICATIONS (SDS)

BULB SPECIFICATIONS

Bulb Specifications

INFOID:000000009480193

| Item | Wattage (W)* |
|-----------------------------------|--------------|
| Front room/map lamp (if equipped) | 8 |
| Vanity lamp | – |
| Room lamp 2nd row | 8 |
| Shift selector finisher lamp | 3 |

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

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