

SECTION **INL**

INTERIOR LIGHTING SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000012423198

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the 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:000000012423199

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

PREPARATION

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PREPARATION

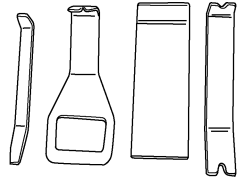
PREPARATION

Special Service Tool

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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 |



AWJIA0483ZZ

COMPONENT PARTS

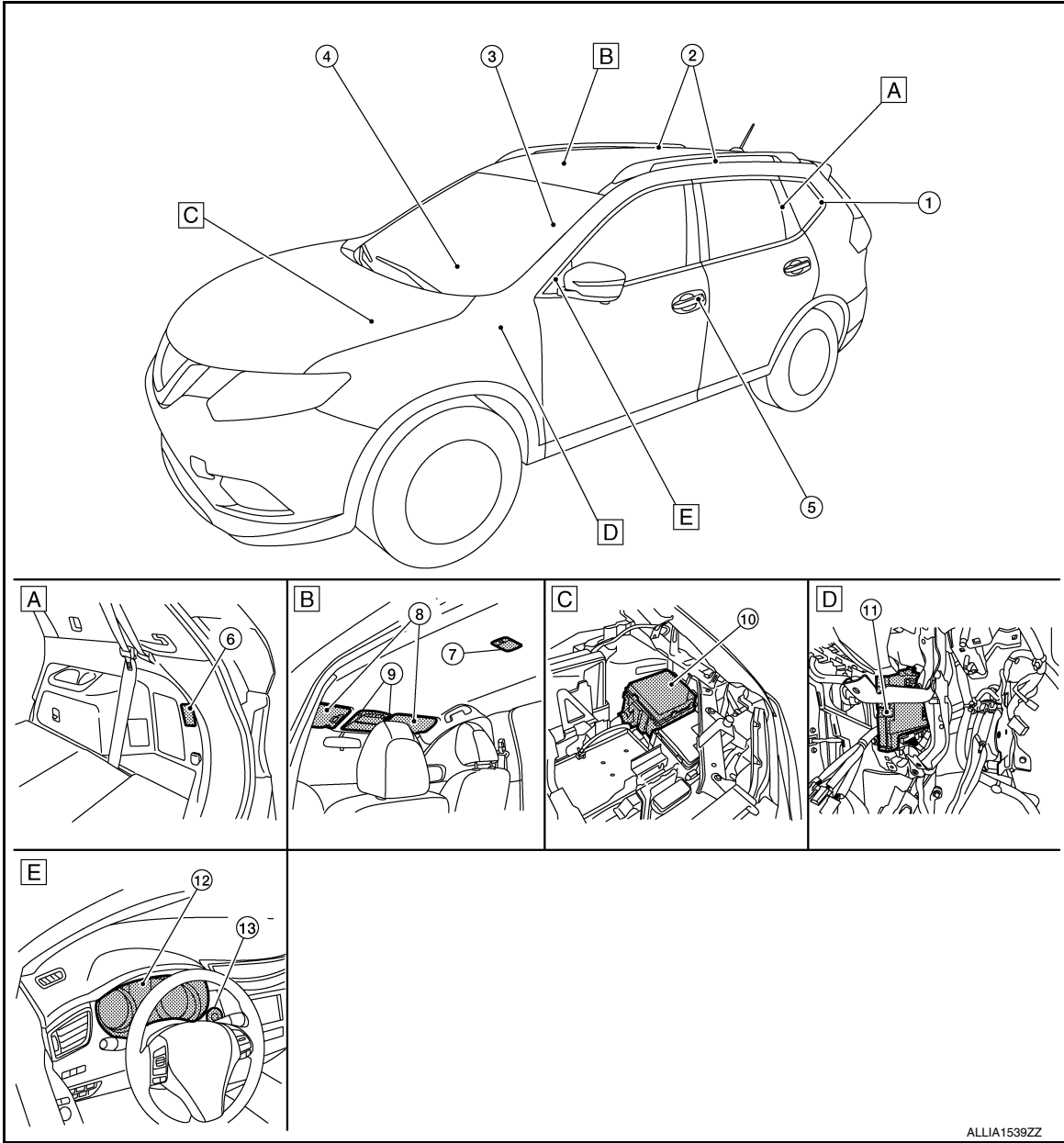
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000012423201



- A. Rear luggage area (RH) B. Front headliner area C. Engine compartment (LH)
 D. Left side of instrument panel (view with finish panel removed) E. Instrument panel (LH)

| No. | Part | Description |
|-----|--|---|
| 1. | Back door lock assembly (back door switch) | Refer to DLK-22. "Back Door Lock Assembly" . |
| 2. | Personal lamps 2nd row | Refer to INL-63. "Bulb Specifications" . |
| 3. | Front door switch (RH) | Refer to DLK-25. "Front Door Request Switch (RH)" . |
| 4. | Optical sensor | Refer to EXL-10. "Optical Sensor" . |

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

| No. | Part | Description |
|-----|------------------------|--|
| 5. | Front door switch (LH) | Refer to DLK-25, "Front Door Request Switch (LH)" . |
| 6. | Luggage room lamp | Refer to INL-63, "Bulb Specifications" . |
| 7. | Room lamp | Refer to INL-63, "Bulb Specifications" . |
| 8. | Vanity mirror lamps | Refer to INL-63, "Bulb Specifications" . |
| 9. | Map lamp assembly | Refer to INL-63, "Bulb Specifications" . |
| 10. | IPDM E/R | Controls audio unit and AV control unit illumination supply voltage according to the request signal from BCM (via CAN communication). Refer to PCS-6, "Component Parts Location" for detailed installation location. |
| 11. | BCM | <ul style="list-style-type: none"> • Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF. • Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply. • Detects each switch condition by the combination switch reading function. • Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter (with CAN communication). • Controls the room lamp relay according to the request signal from BCM (via CAN communication). Refer to BCS-7, "BODY CONTROL SYSTEM : Component Parts Location" (with Intelligent Key system) or BCS-80, "BODY CONTROL SYSTEM : Component Parts Location" (without Intelligent Key system) for detailed installation location. |

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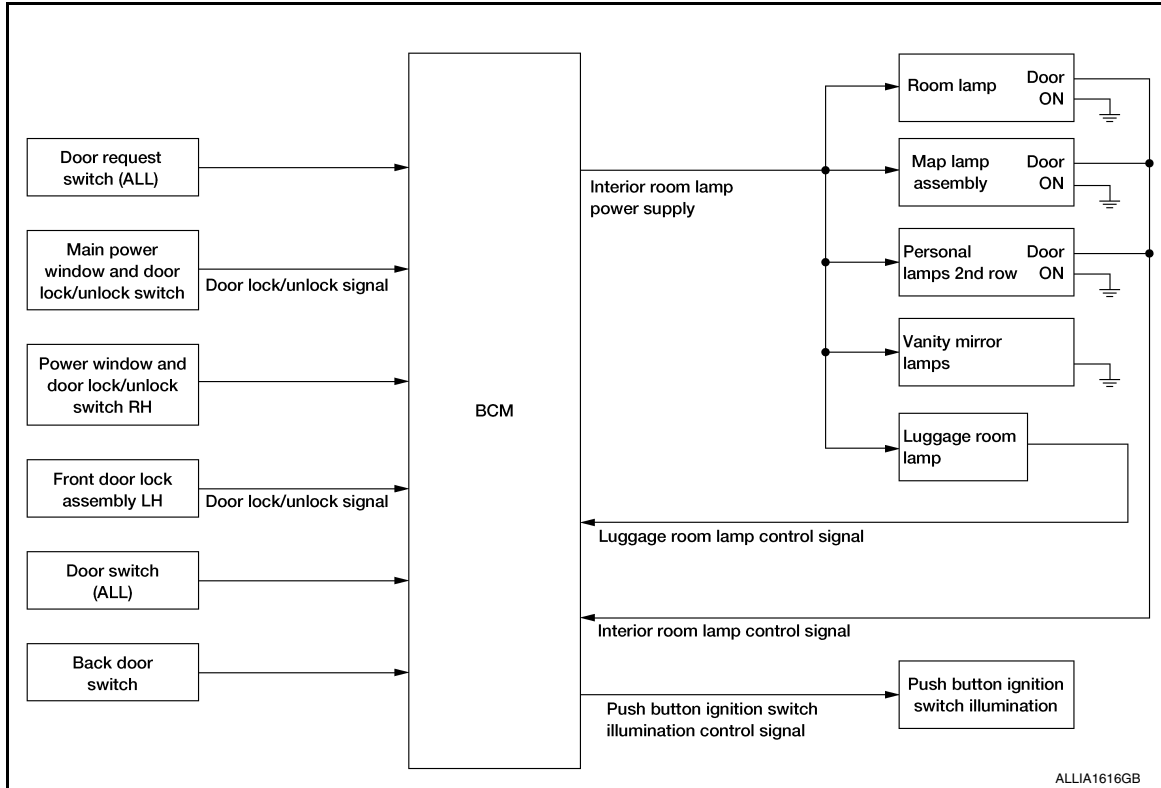
SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

INFOID:000000012423202

SYSTEM DIAGRAM

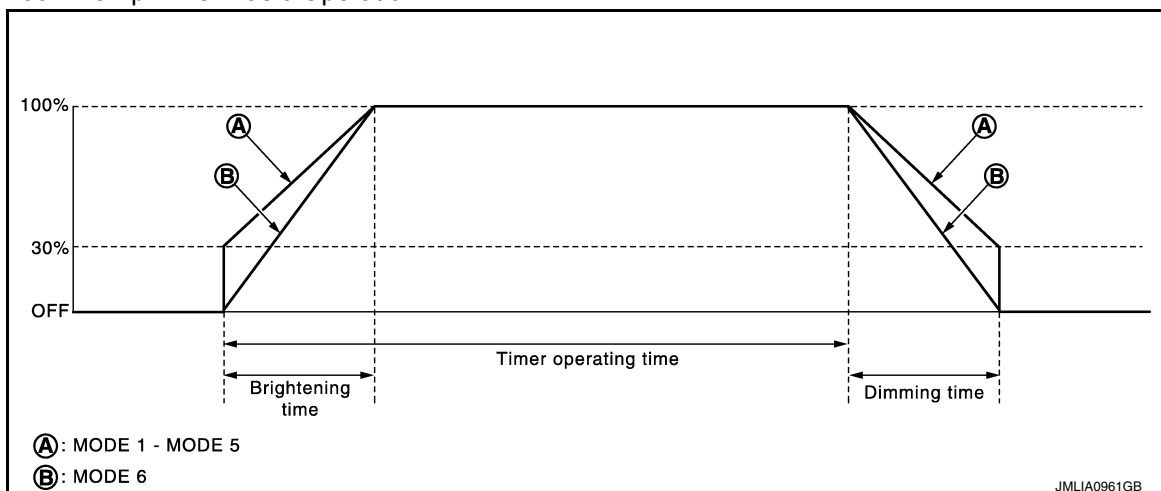


OUTLINE

- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
- *: Map lamp assembly and room lamp (when map lamp switch and room lamp switch are in DOOR position).
- Luggage room lamp is controlled by luggage room lamp control function of BCM.
- Push button ignition switch illumination is controlled by the push button ignition switch illumination control function of BCM.

INTERIOR ROOM LAMP TIMER CONTROL

Interior Room Lamp Timer Basic Operation



NOTE:

A: Sets the interior room lamp gradual brightening and dimming time.

SYSTEM

< SYSTEM DESCRIPTION >

B: Gradually dims from 100% to 0% and gradually brightens 0% to 100% in 1 second.

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

NOTE:

Each function of interior room lamp timer can be set by CONSULT. Refer to [BCS-18, "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#) (with Intelligent Key system) or [BCS-90, "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#) (without Intelligent Key system).

Interior Room Lamp ON Operation:

- BCM always turns the interior room lamp ON when any door opens.
- BCM activates the interior room lamp timer in any of the following conditions to turn the interior room lamp ON for a period of time:
 - Status of all doors changes from open to close
 - Ignition switch is turned ON → OFF
 - Door unlock signal is detected when all doors close

NOTE:

The timer restarts if new condition is input during the timer operating time.

Interior Room Lamp OFF Operation:

BCM stops the timer in any of the following conditions to turn the interior room lamp OFF:

- The timer operating time is expired
- Ignition switch is turned OFF → ON
- Door lock signal is detected with all doors close except back door.

LUGGAGE ROOM LAMP CONTROL

BCM turns luggage room lamp ON when the following condition is detected:

- Back door switch is ON

BCM turns luggage room lamp OFF when the following condition is detected:

- Back door switch is OFF

PUSH BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push Button Ignition Switch Illumination Basic Operation:

BCM provides the power supply to turn the ignition switch illumination ON.

Push Button Ignition Switch Illumination ON Operation

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

- Ignition switch ON
- Any of the following conditions with ignition switch OFF:
 - Driver side door is LOCK → UNLOCK
 - Driver side door is open

Push Button Ignition Switch Illumination OFF Operation

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

- The push button ignition switch illumination ON conditions are not satisfied.
- Any of the following conditions with the ignition switch OFF:
 - The push button ignition switch illumination ON conditions do not change (15 seconds after the ignition switch OFF)
 - Driver side door is UNLOCK → LOCK

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

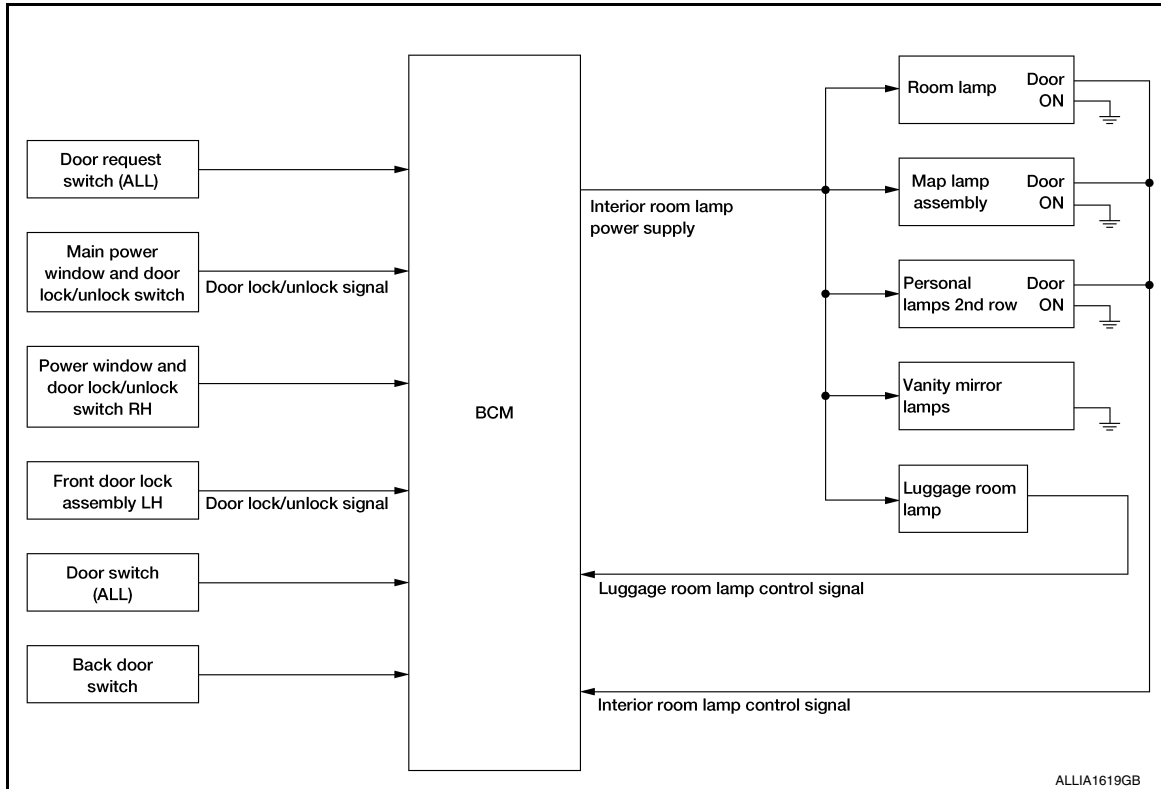
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< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

- Interior room lamp battery saver is controlled by BCM.
- BCM turns applicable lamps OFF depending on the vehicle condition. This function prevents the 12V battery from over-discharging if the driver neglects turning OFF the lamps.

Applicable lamps:

- Map lamp assembly
- Room lamp
- Luggage room lamp
- Personal lamps 2nd row

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

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

NOTE:

Each function of interior room lamp battery saver can be set by CONSULT. Refer to [BCS-18, "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#) (with Intelligent Key system) or [BCS-90, "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#) (without Intelligent Key system).

ILLUMINATION CONTROL SYSTEM

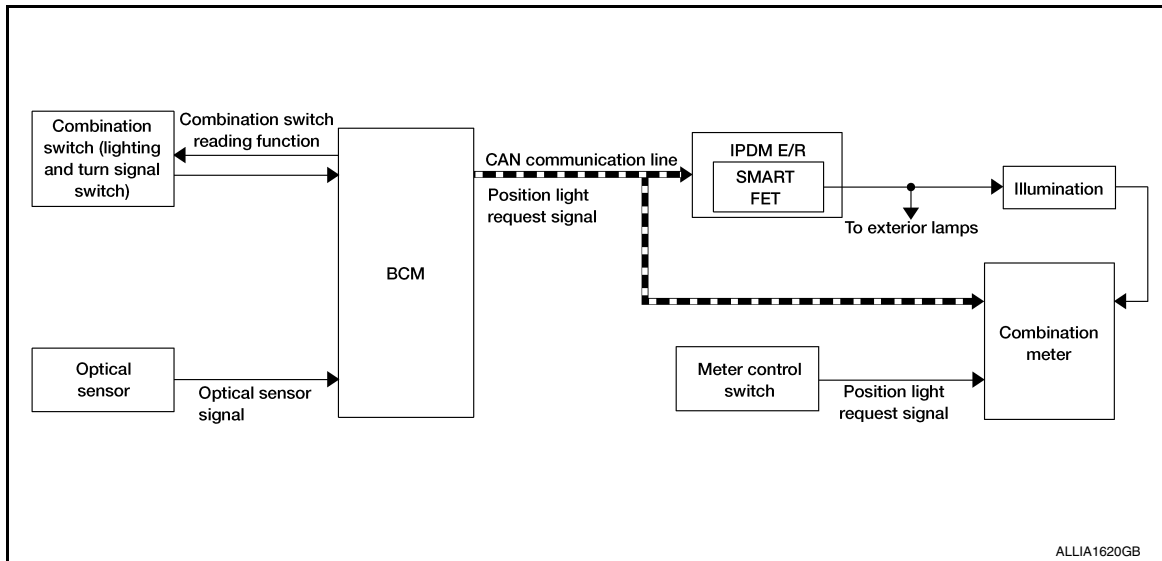
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< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM : System Description

INFOID:000000012423204

SYSTEM DIAGRAM



OUTLINE

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

Controlled by BCM:

- Combination switch reading function
- Headlamp control function

Controlled by IPDM E/R:

- Smart FET control function

Controlled by combination meter:

- Meter illumination control function

ILLUMINATION CONTROL

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter according to tail lamp ON condition.

Tail lamp ON condition:

- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment
- Lighting switch AUTO, with the front fog lamp switch ON and the ignition switch ON
- IPDM E/R turns each illumination lamp ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter enters in the nighttime mode according to position light request signal. Under the nighttime mode the combination meter controls the illuminance by controlling the each illumination lamp.

AUTO LIGHT ADJUSTMENT SYSTEM

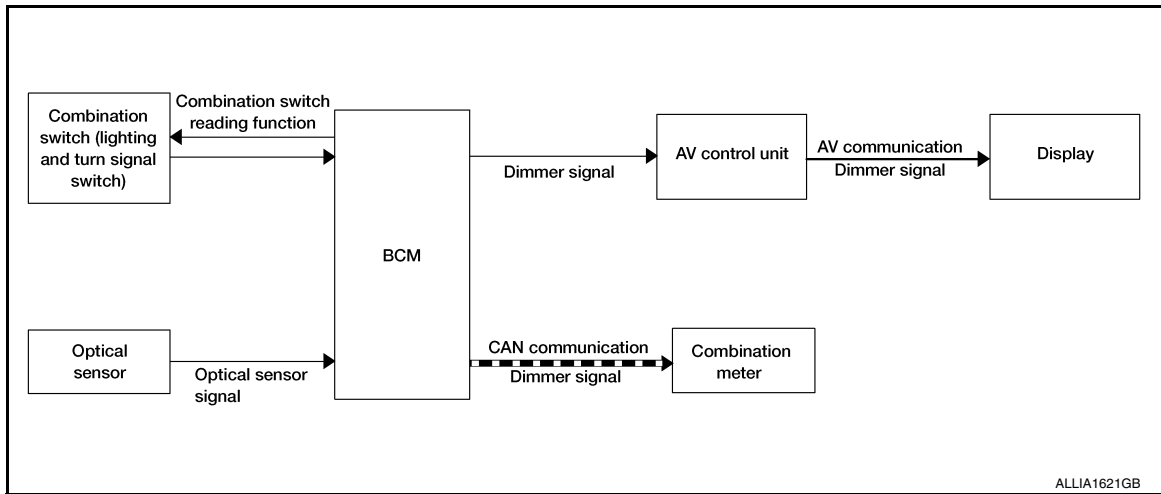
SYSTEM

< SYSTEM DESCRIPTION >

AUTO LIGHT ADJUSTMENT SYSTEM : System Description

INFOID:000000012423205

SYSTEM DIAGRAM



OUTLINE

Auto light adjustment system is controlled by each function of BCM, combination meter and AV control unit

Controlled by BCM:

- Auto light system
- Auto light adjustment system

AUTO LIGHT ADJUSTMENT SYSTEM

Description

- BCM supplies voltage to the optical sensor when the ignition switch is turned ON.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM judges dimming/brightening of combination meter and display according to brightness outside the vehicle, when ignition switch is ON.
- BCM transmits dimmer signal to combination meter via CAN communication, according to auto light adjustment conditions. Dimmer signal is also transmitted to AV control unit.

NOTE:

As to dimming/brightening timing, the sensitivity depends on settings. The settings can be changed with CONSULT. Refer to [BCS-19, "HEAD LAMP : CONSULT Function \(BCM - HEADLAMP\)"](#) (with Intelligent Key system) or [BCS-91, "HEAD LAMP : CONSULT Function \(BCM - HEADLAMP\)"](#) (without Intelligent Key system).

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000012610855

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 | | × | × | × | × | | |
| Rear window defogger | REAR DEFOGGER | | | × | × | × | | |
| Warning chime | BUZZER | | | × | × | | | |
| Interior room lamp timer | INT LAMP | | | × | × | × | | |
| Exterior lamp | HEADLAMP | | | × | × | × | | |
| Wiper and washer | WIPER | | | × | × | × | | |
| Turn signal and hazard warning lamps | FLASHER | | | × | × | | | |
| Intelligent Key system | INTELLIGENT KEY | | × | × | × | × | | |
| Combination switch | COMB SW | | | × | | | | |
| BCM | BCM | × | × | | | × | × | × |
| Immobilizer | IMMU | | × | × | × | | | |
| Interior room lamp battery saver | BATTERY SAVER | | | × | × | | | |
| Back door open | TRUNK | | | × | | | | |
| Vehicle security system | THEFT ALM | | | × | × | × | | |
| RAP system | RETAINED PWR | | | × | | | | |
| Signal buffer system | SIGNAL BUFFER | | | × | | | | |
| Air conditioner | AIR CONDITIONER | | | | × | | | |

INT LAMP

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000012610856

DATA MONITOR

| Monitor Item [Unit] | Description |
|------------------------|--|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| PUSH -SW [On/Off] | Indicates condition of push-button ignition 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. |
| DOOR SW-BK [On/Off] | Indicates condition of back door 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. |
| 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. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |

ACTIVE TEST

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

WORK SUPPORT

| Support Item | Setting | Description |
|------------------------|---------|--|
| SET I/L D-UNLCK INTCON | On | Interior room lamp timer function ON. |
| | Off* | Interior room lamp timer function OFF. |
| FOG LAMP OVERRIDE | On | Fog lamp override function ON. |
| | Off* | Fog lamp override function OFF. |

*: Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000012610857

DATA MONITOR

| Monitor Item [Unit] | Description |
|----------------------|--|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| PUSH SW [On/Off] | Indicates condition push-button ignition 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. |
| DOOR SW-BK [On/Off] | Indicates condition of back door switch. |
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Monitor Item [Unit] | Description |
|------------------------|--|
| CDL UNLOCK SW [On/Off] | Indicates condition of unlock signal from door lock and unlock switch. |
| KEY CYL LK-SW [On/Off] | Indicates condition of lock signal from door key cylinder switch. |
| KEY CYL UN-SW [On/Off] | Indicates condition of unlock signal from door key cylinder switch. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |

ACTIVE TEST

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

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012610858

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 | x | | |
| Warning chime | BUZZER | | | x | x | | | |
| Interior room lamp timer | INT LAMP | | | x | x | x | | |
| Remote keyless entry system | MULTI REMOTE ENT | | | | | x | | |
| Exterior lamp | HEADLAMP | | | x | x | | | |
| Wiper and washer | WIPER | | | x | x | x | | |
| Turn signal and hazard warning lamps | FLASHER | | | x | x | | | |
| Combination switch | COMB SW | | | x | | | | |
| BCM | BCM | x | x | | | x | x | x |
| Immobilizer | IMMU | | x | | x | | | |
| Interior room lamp battery saver | BATTERY SAVER | | | x | x | | | |
| Back door open | TRUNK | | | x | | | | |
| Vehicle security system | THEFT ALM | | | x | x | x | | |
| RAP system | RETAINED PWR | | | x | | | | |
| TPMS | AIR PRESSURE MONITOR | | x | x | x | x | | |

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000012610859

DATA MONITOR

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Monitor Item [Unit] | Description |
|------------------------|--|
| 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. |
| DOOR SW-BK [On/Off] | Indicates condition of back door 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. |
| 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. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |

ACTIVE TEST

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

WORK SUPPORT

| Support Item | Setting | Description |
|------------------------|---------|--|
| SET I/L D-UNLCK INTCON | On* | Interior room lamp timer function ON. |
| | Off | Interior room lamp timer function OFF. |

*: Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000012610860

DATA MONITOR

| Monitor Item [Unit] | Description |
|------------------------|--|
| 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. |
| DOOR SW-BK [On/Off] | Indicates condition of back door 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. |
| 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. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |

ACTIVE TEST

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

BCM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000012423212

| ECU | Reference |
|--------------------------------------|--|
| BCM (with Intelligent Key system) | BCS-29, "Reference Value" |
| | BCS-47, "Fail Safe" |
| | BCS-47, "DTC Inspection Priority Chart" |
| | BCS-48, "DTC Index" |
| BCM (without Intelligent Key system) | BCS-97, "Reference Value" |
| | BCS-108, "Fail Safe" |
| | BCS-109, "DTC Inspection Priority Chart" |
| | BCS-109, "DTC Index" |

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INL

INTERIOR ROOM LAMP CONTROL SYSTEM

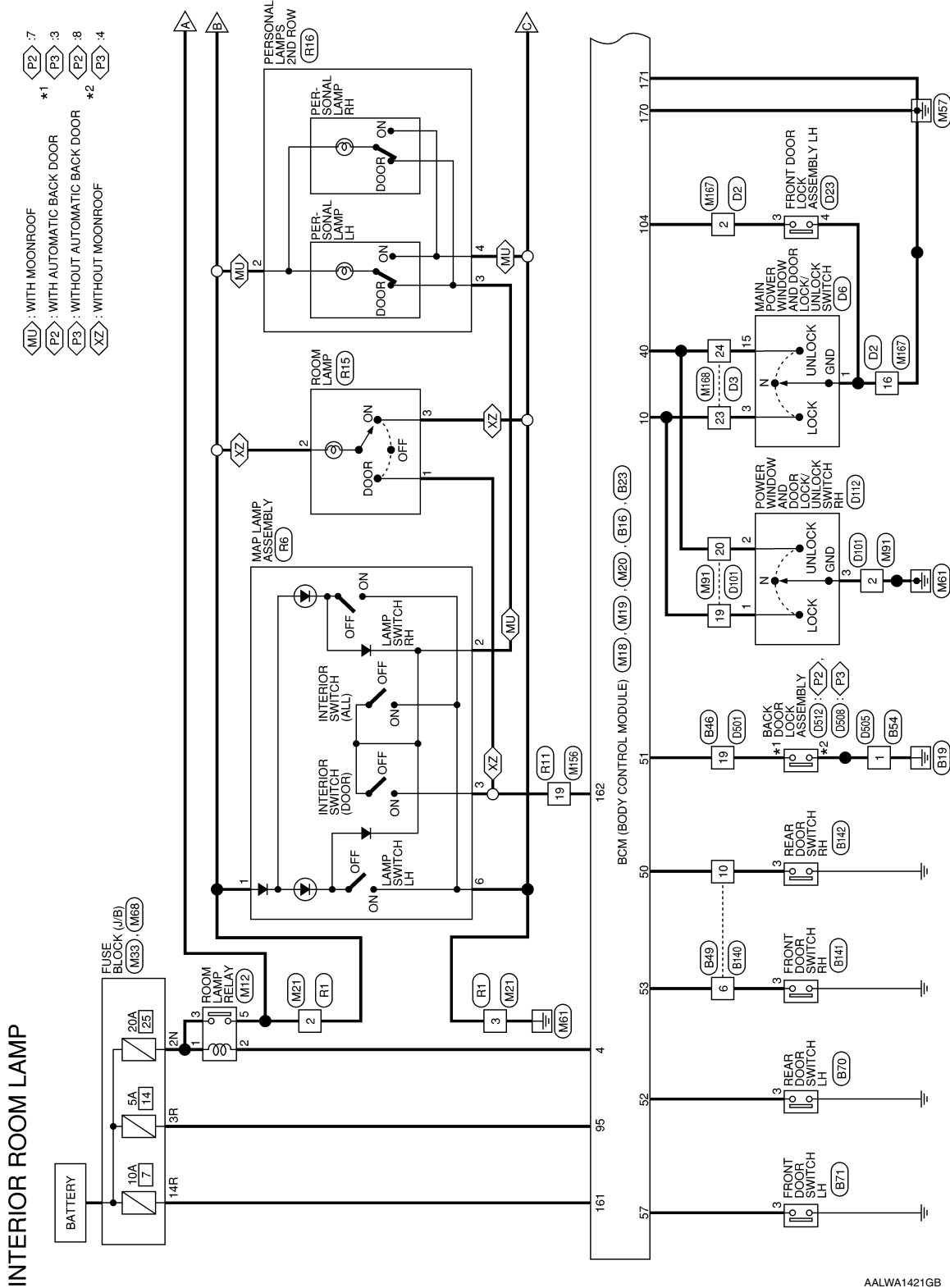
< WIRING DIAGRAM >

WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

INFOID:000000012423213

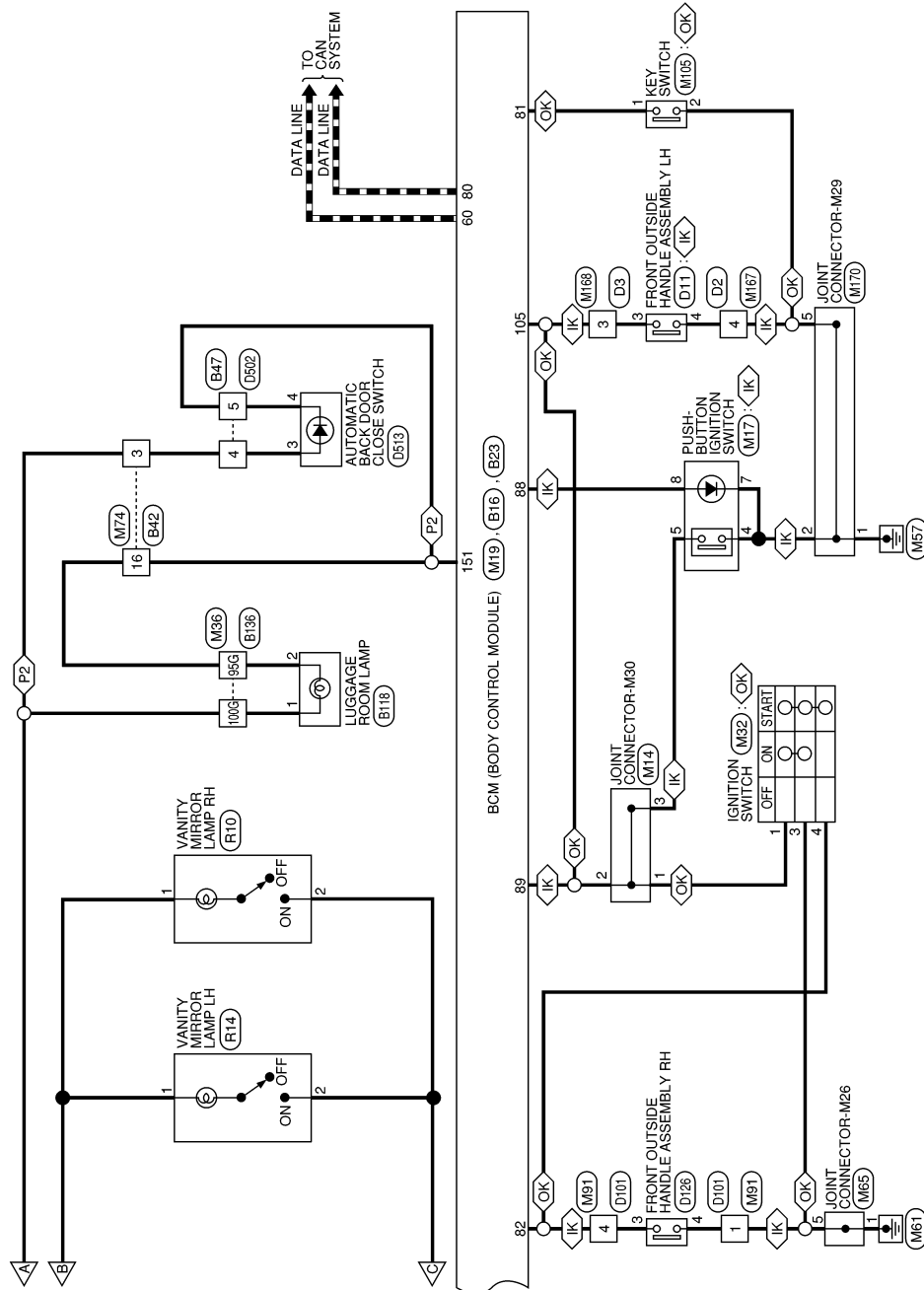


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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

- : WITH INTELLIGENT KEY SYSTEM
- : WITHOUT INTELLIGENT KEY SYSTEM
- : WITH AUTOMATIC BACK DOOR



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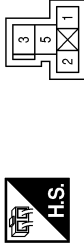
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONNECTORS

| | |
|-----------------|-----------------|
| Connector No. | M12 |
| Connector Name | ROOM LAMP RELAY |
| Connector Color | BLUE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | LG | - |
| 2 | P | - |
| 3 | LG | - |
| 5 | V | - |

| | |
|-----------------|---------------------|
| Connector No. | M14 |
| Connector Name | JOINT CONNECTOR-M30 |
| Connector Color | WHITE |



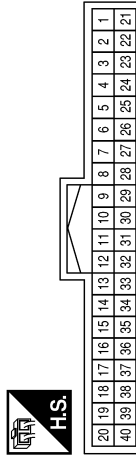
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 2 | Y | - |
| 3 | Y | - |

| | |
|-----------------|-----------------------------|
| Connector No. | M17 |
| Connector Name | PUSH-BUTTON IGNITION SWITCH |
| Connector Color | WHITE |



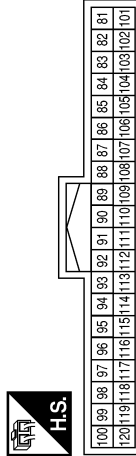
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | B | - |
| 5 | Y | - |
| 7 | B | - |
| 8 | W | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------------|
| 4 | P | O ROOM/LAMP BATSAYER RL |
| 10 | BG | I DOORLOCK SW |
| 40 | SB | I DOORUNLOCK SW |

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



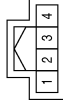
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---|
| 81 | L | I KEY SW |
| 82 | LA/R | I STARTER SW (WITHOUT INTELLIGENT KEY SYSTEM) |
| 82 | W | I SES FR HANDLE BUTTON SW (WITH INTELLIGENT KEY SYSTEM) |
| 88 | W | O START SW BACKLIGHT LED |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---|
| 89 | Y | I START WO EC SL SW |
| 95 | V | I SHORTING PIN |
| 104 | R | I DR KNOB SW |
| 105 | Y | I IGN SW (WITHOUT INTELLIGENT KEY SYSTEM) |
| 105 | Y | I SES DR HANDLE BUTTON SW (WITH INTELLIGENT KEY SYSTEM) |

INTERIOR ROOM LAMP CONTROL SYSTEM

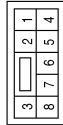
< WIRING DIAGRAM >

| | |
|-----------------|-----------------|
| Connector No. | M32 |
| Connector Name | IGNITION SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 3 | B | - |
| 4 | LA/R | - |

| | |
|-----------------|--------------|
| Connector No. | M21 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



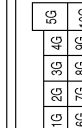
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | V | - |
| 3 | B | - |

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



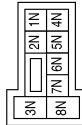
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 161 | W | I PWR ECU |
| 162 | SB | O PWM ROOMLAMP 1 |
| 170 | B | I GND1 |
| 171 | B | I GND2 |

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

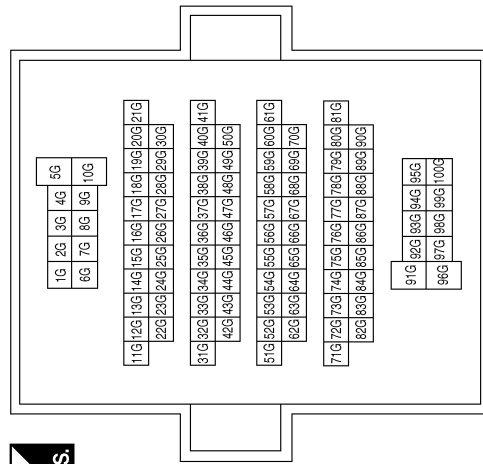


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 95G | GR | - |
| 100G | V | - |

| | |
|-----------------|------------------|
| Connector No. | M33 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



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



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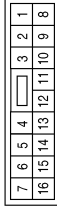
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

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



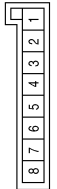
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | V | - |
| 16 | GR | - |

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|-----------------|------------------|
| Connector No. | M68 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | BROWN |



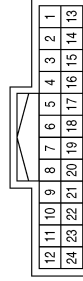
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3R | V | - |
| 14R | W | - |

| | |
|-----------------|---------------------|
| Connector No. | M65 |
| Connector Name | JOINT CONNECTOR-M26 |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | M156 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



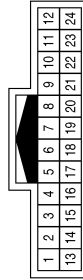
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 19 | SB | - |

| | |
|-----------------|------------|
| Connector No. | M105 |
| Connector Name | KEY SWITCH |
| Connector Color | WHITE |



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

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



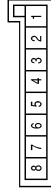
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 2 | GR | - |
| 4 | W | - |
| 19 | LG | - |
| 20 | BR | - |

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INTERIOR ROOM LAMP CONTROL SYSTEM

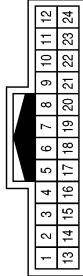
< WIRING DIAGRAM >

| | |
|-----------------|---------------------|
| Connector No. | M170 |
| Connector Name | JOINT CONNECTOR-M29 |
| Connector Color | WHITE |



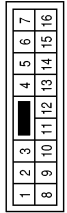
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 2 | B | - |
| 5 | B | - |

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| Connector No. | M168 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



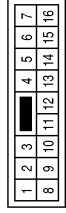
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | Y | - |
| 23 | BG | - |
| 24 | SB | - |

| | |
|-----------------|--------------|
| Connector No. | M167 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | R | - |
| 4 | B | - |
| 16 | B | - |

| | |
|-----------------|--------------|
| Connector No. | B42 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



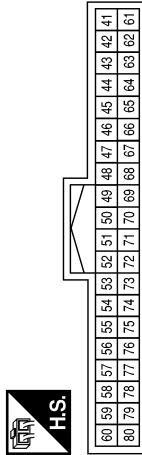
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | V | - |
| 16 | R | - |

| | |
|-----------------|---------------------------|
| Connector No. | B23 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 151 | R | O PWM ROOMLAMP 5 |

| | |
|-----------------|---------------------------|
| Connector No. | B16 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GREEN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------|
| 50 | W | I RR DOOR SW |
| 51 | LG | I TGATE SW |
| 52 | R | I RL DOOR SW |
| 53 | SB | I AS DOOR2 SW |
| 57 | SB | I DR DOOR2 SW |
| 60 | L | CAN-H |
| 80 | P | CAN-L |

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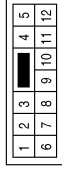
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INTERIOR ROOM LAMP CONTROL SYSTEM

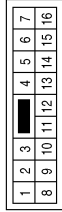
< WIRING DIAGRAM >

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| Connector No. | B49 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



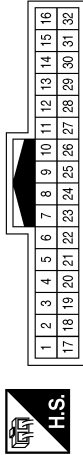
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | SB | - |
| 10 | W | - |

| | |
|-----------------|--------------|
| Connector No. | B47 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



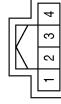
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | V | - |
| 5 | W | - |

| | |
|-----------------|--------------|
| Connector No. | B46 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



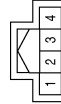
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 19 | LG | - |

| | |
|-----------------|----------------------|
| Connector No. | B71 |
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Color | WHITE |



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

| | |
|-----------------|---------------------|
| Connector No. | B70 |
| Connector Name | REAR DOOR SWITCH LH |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | B54 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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

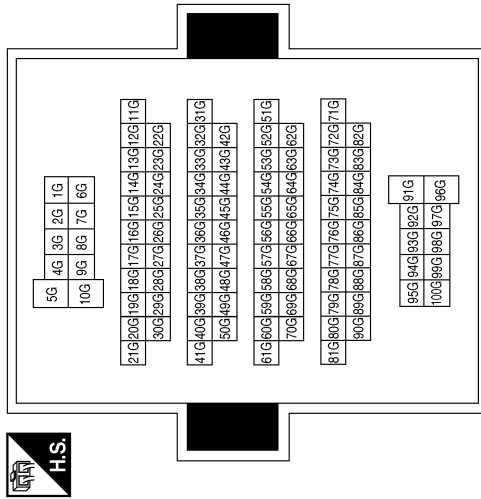
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 95G | V | - |
| 100G | Y | - |

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|-----------------|--------------|
| Connector No. | B136 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

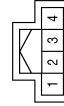


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|-----------------|-------------------|
| Connector No. | B118 |
| Connector Name | LUGGAGE ROOM LAMP |
| Connector Color | WHITE |



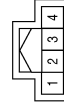
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | Y | - |
| 2 | V | - |

| | |
|-----------------|---------------------|
| Connector No. | B142 |
| Connector Name | REAR DOOR SWITCH RH |
| Connector Color | WHITE |



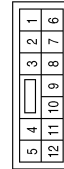
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | W | - |

| | |
|-----------------|----------------------|
| Connector No. | B141 |
| Connector Name | FRONT DOOR SWITCH RH |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | B140 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6 | GR | - |
| 10 | W | - |

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INTERIOR ROOM LAMP CONTROL SYSTEM

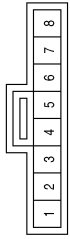
< WIRING DIAGRAM >

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| Connector No. | R10 |
| Connector Name | VANITY MIRROR LAMP RH |
| Connector Color | WHITE |



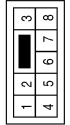
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | - |
| 2 | B | - |

| | |
|-----------------|-------------------|
| Connector No. | R6 |
| Connector Name | MAP LAMP ASSEMBLY |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | - |
| 2 | SB | - |
| 3 | SB | - |
| 6 | B | - |

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



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

| | |
|-----------------|-----------|
| Connector No. | R15 |
| Connector Name | ROOM LAMP |
| Connector Color | WHITE |



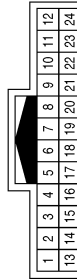
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | SB | - |
| 2 | P | - |
| 3 | B | - |

| | |
|-----------------|-----------------------|
| Connector No. | R14 |
| Connector Name | VANITY MIRROR LAMP LH |
| Connector Color | WHITE |



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

| | |
|-----------------|--------------|
| Connector No. | R11 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



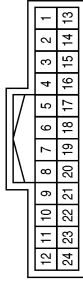
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 19 | SB | - |

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INTERIOR ROOM LAMP CONTROL SYSTEM

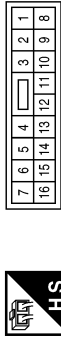
< WIRING DIAGRAM >

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



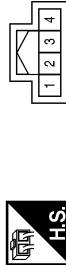
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | W | - |
| 23 | L | - |
| 24 | BG | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | R | - |
| 4 | B | - |
| 16 | B | - |

| | |
|-----------------|---------------------------|
| Connector No. | R16 |
| Connector Name | PERSONAL LAMPS 2ND ROW |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | P | - |
| 3 | SB | - |
| 4 | B | - |

| | |
|-----------------|--------------------------------|
| Connector No. | D23 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY LH |
| Connector Color | GRAY |



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

| | |
|-----------------|-------------------------------------|
| Connector No. | D11 |
| Connector Name | FRONT OUTSIDE HANDLE ASSEMBLY LH |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | W | - |
| 4 | B | - |

| | |
|-----------------|---|
| Connector No. | D6 |
| Connector Name | MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | GND |
| 3 | L | DOOR LOCK |
| 15 | BG | DOOR UNLOCK |

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INTERIOR ROOM LAMP CONTROL SYSTEM

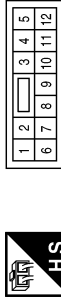
< WIRING DIAGRAM >

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| Connector No. | D126 |
| Connector Name | FRONT OUTSIDE HANDLE ASSEMBLY RH |
| Connector Color | BLACK |



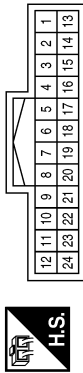
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | P | - |
| 4 | B | - |

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|-----------------|---|
| Connector No. | D112 |
| Connector Name | POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH |
| Connector Color | WHITE |



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

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



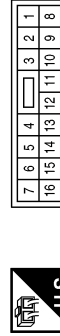
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 2 | B | - |
| 4 | P | - |
| 19 | LG | - |
| 20 | BR | - |

| | |
|-----------------|--------------|
| Connector No. | D505 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



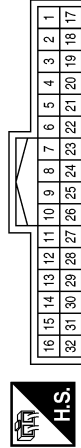
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |

| | |
|-----------------|--------------|
| Connector No. | D502 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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

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



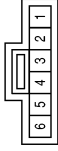
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 19 | W | - |

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INTERIOR ROOM LAMP CONTROL SYSTEM

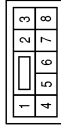
< WIRING DIAGRAM >

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|-----------------|----------------------------------|
| Connector No. | D513 |
| Connector Name | AUTOMATIC BACK DOOR CLOSE SWITCH |
| Connector Color | GRAY |



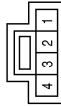
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | R | - |
| 4 | W | - |

| | |
|-----------------|---|
| Connector No. | D512 |
| Connector Name | BACK DOOR LOCK ASSEMBLY (WITH AUTOMATIC BACK DOOR SYSTEM) |
| Connector Color | WHITE |



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

| | |
|-----------------|--|
| Connector No. | D508 |
| Connector Name | BACK DOOR LOCK ASSEMBLY (WITHOUT AUTOMATIC BACK DOOR SYSTEM) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | W | - |
| 4 | GR | - |

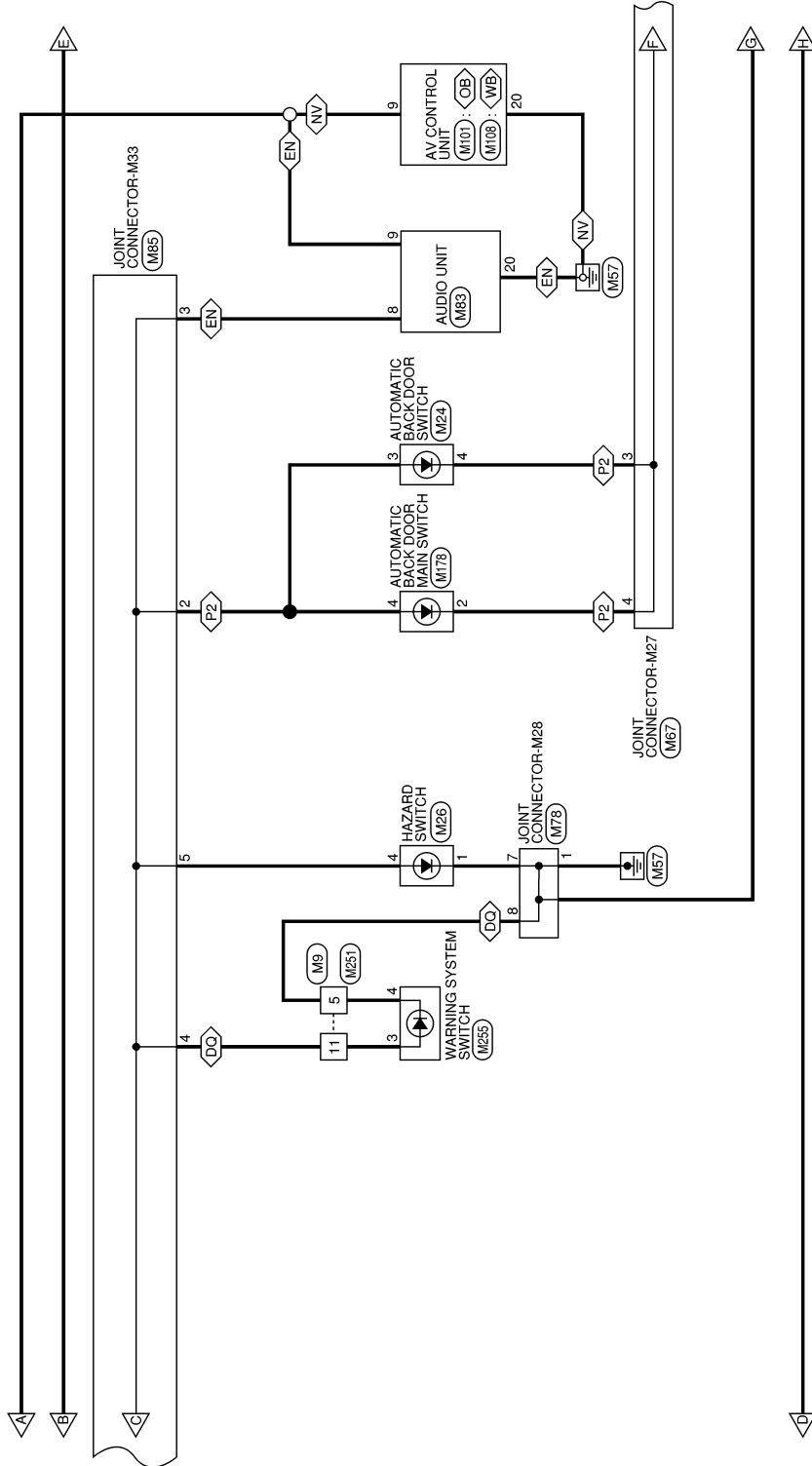
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ILLUMINATION

< WIRING DIAGRAM >

- EN : WITHOUT NAVI
- DQ : WITH DRIVER ASSISTANCE SYSTEM
- NV : WITH NAVI
- OB : WITHOUT BOSE AUDIO SYSTEM
- P2 : WITH AUTOMATIC BACK DOOR
- WB : WITH BOSE AUDIO SYSTEM



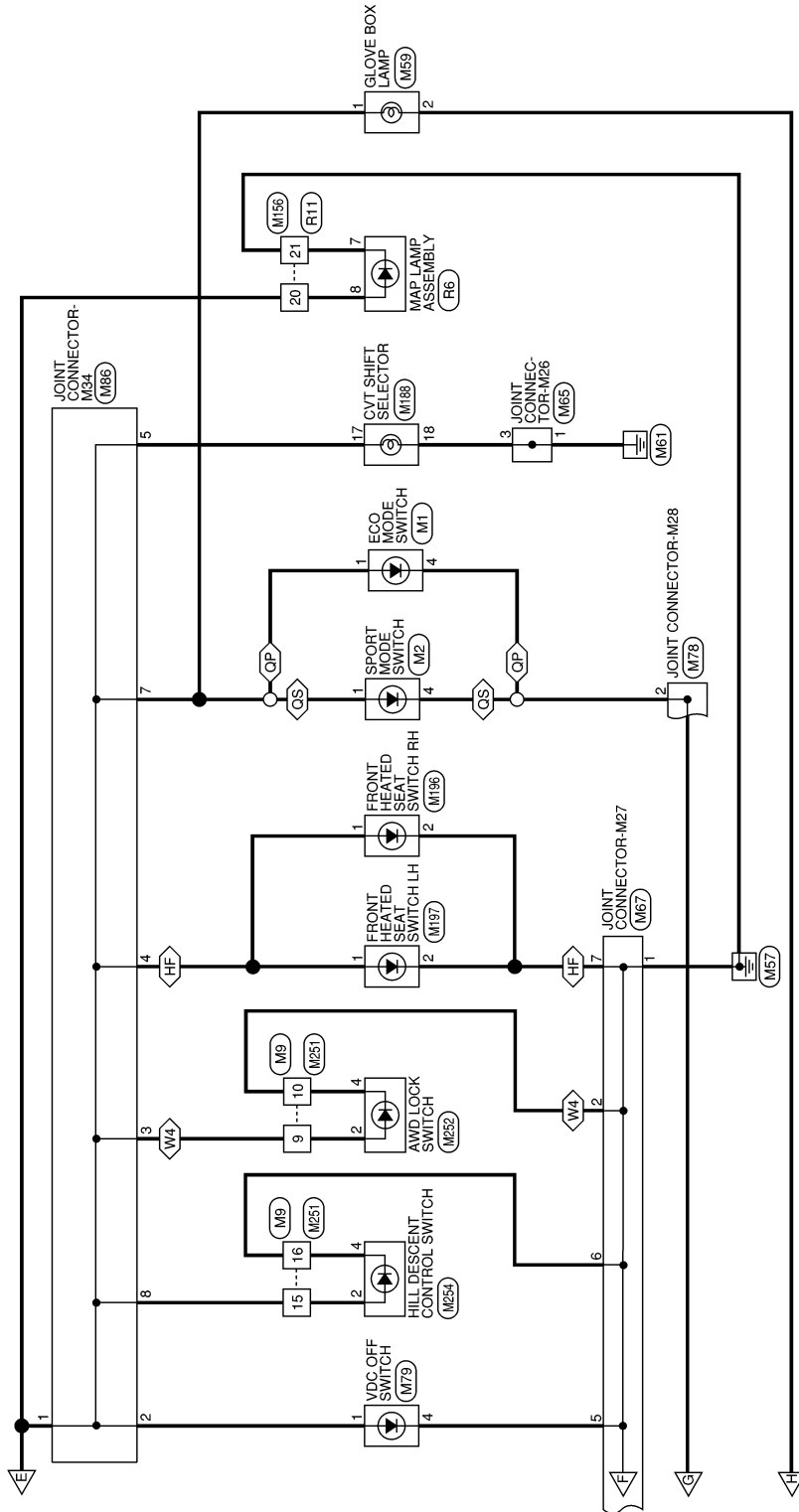
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ILLUMINATION

< WIRING DIAGRAM >

- HF : WITH FRONT HEATED SEAT
- QP : WITH ECO MODE SWITCH
- QS : WITH SPORT MODE SWITCH
- W4 : WITH ALL WHEEL DRIVE



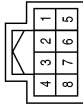
AALWA1458GB

ILLUMINATION

< WIRING DIAGRAM >

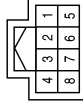
ILLUMINATION CONNECTORS

| | |
|-----------------|-----------------|
| Connector No. | M1 |
| Connector Name | ECO MODE SWITCH |
| Connector Color | GRAY |



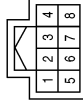
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | G | - |
| 4 | GR | - |

| | |
|-----------------|-------------------|
| Connector No. | M2 |
| Connector Name | SPORT MODE SWITCH |
| Connector Color | BLUE |



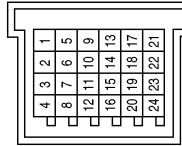
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | G | - |
| 4 | GR | - |

| | |
|-----------------|----------------------|
| Connector No. | M3 |
| Connector Name | METER CONTROL SWITCH |
| Connector Color | WHITE |



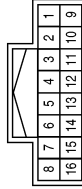
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | B | - |
| 4 | BG | - |
| 6 | GR | - |
| 7 | V | - |

| | |
|-----------------|---------------------|
| Connector No. | M6 |
| Connector Name | JOINT CONNECTOR-M01 |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | P | - |
| 4 | L | - |
| 7 | P | - |
| 8 | L | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | GR | - |
| 9 | G | - |
| 10 | B | - |
| 11 | R | - |
| 15 | G | - |
| 16 | B | - |

| | |
|-----------------|----------------|
| Connector No. | M13 |
| Connector Name | OPTICAL SENSOR |
| Connector Color | WHITE |



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

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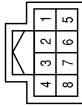
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ILLUMINATION

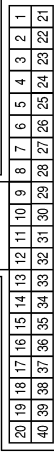
< WIRING DIAGRAM >

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| Connector No. | M17 |
| Connector Name | PUSH-BUTTON IGNITION SWITCH |
| Connector Color | WHITE |



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

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------------|
| 12 | W | O PWR AUTOLIGHT SENSOR |
| 19 | LG | I AUTOLIGHT SENSOR |
| 30 | V | O GND AUTOLIGHT SENSOR |
| 33 | LG | I CSW 5 |
| 34 | Y | O CSW 5 |
| 36 | G | I CSW 3 |
| 37 | GR | I CSW 4 |
| 38 | V | I CSW 1 |
| 39 | W | I CSW 2 |

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



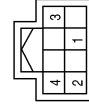
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--|
| 84 | BR | O CSW 2 |
| 85 | SB | O CSW 1 |
| 86 | P | O CSW 3 |
| 87 | BG | O CSW 4 |
| 88 | W | O START SW BACKLIGHT LED (WITH INTELLIGENT KEY SYSTEM) |
| 95 | V | I SHORTING PIN |

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



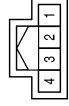
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 161 | W | I PWR ECU |
| 170 | B | I GND1 |
| 171 | B | I GND2 |

| | |
|-----------------|----------------------------|
| Connector No. | M24 |
| Connector Name | AUTOMATIC BACK DOOR SWITCH |
| Connector Color | GREEN |



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

| | |
|-----------------|---------------|
| Connector No. | M26 |
| Connector Name | HAZARD SWITCH |
| Connector Color | WHITE |

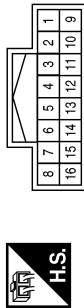


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | GR | - |
| 4 | R | - |

ILLUMINATION

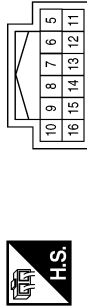
< WIRING DIAGRAM >

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



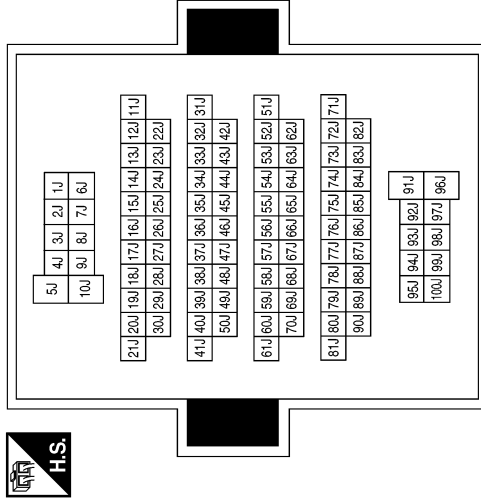
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | LG | - |
| 2 | SB | - |
| 3 | GR | - |
| 4 | BG | - |
| 5 | G | - |
| 6 | W | - |
| 7 | Y | - |
| 8 | V | - |
| 10 | BR | - |
| 15 | P | - |

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



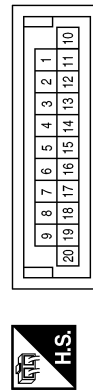
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | B | - |
| 10 | R | - |

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



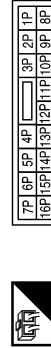
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 60J | P | - |
| 61J | L | - |

| | |
|-----------------|---------------------|
| Connector No. | M43 |
| Connector Name | JOINT CONNECTOR-M02 |
| Connector Color | BLUE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L | - |
| 5 | L | - |
| 11 | P | - |
| 12 | P | - |
| 15 | P | - |

| | |
|-----------------|------------------|
| Connector No. | M44 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 8P | LA/BR | - |
| 13P | LA/G | - |

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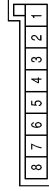
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ILLUMINATION

< WIRING DIAGRAM >

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| Connector No. | M67 |
| Connector Name | JOINT CONNECTOR-M27 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 2 | B | - |
| 3 | B | - |
| 4 | B | - |
| 5 | B | - |
| 6 | B | - |
| 7 | B | - |

| | |
|-----------------|---------------------|
| Connector No. | M65 |
| Connector Name | JOINT CONNECTOR-M26 |
| Connector Color | WHITE |



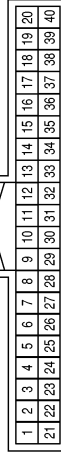
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | - |
| 3 | B | - |

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



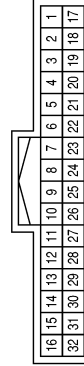
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | W | - |
| 2 | B | - |

| | |
|-----------------|-------------------|
| Connector No. | M76 |
| Connector Name | COMBINATION METER |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 1 | B | GND 1 |
| 17 | BG | SATELLITE SW GND |
| 36 | GR | ILL UP SW |
| 37 | V | ILL DOWN SW |

| | |
|-----------------|--------------|
| Connector No. | M69 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 24 | P | - |
| 25 | L | - |

| | |
|-----------------|------------------|
| Connector No. | M68 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | BROWN |



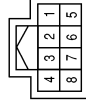
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1R | V | - |
| 3R | V | - |
| 14R | W | - |

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ILLUMINATION

< WIRING DIAGRAM >

| | |
|-----------------|----------------|
| Connector No. | M79 |
| Connector Name | VDC OFF SWITCH |
| Connector Color | BLACK |



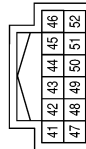
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | G | - |
| 4 | B | - |

| | |
|-----------------|---------------------|
| Connector No. | M78 |
| Connector Name | JOINT CONNECTOR-M28 |
| Connector Color | WHITE |



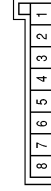
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | GR | - |
| 2 | GR | - |
| 7 | GR | - |
| 8 | GR | - |

| | |
|-----------------|-------------------|
| Connector No. | M77 |
| Connector Name | COMBINATION METER |
| Connector Color | WHITE |



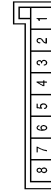
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 41 | L | CAN-H |
| 42 | P | CAN-L |
| 43 | W | ILL CONT OUT |
| 45 | LA/G | ALVUSBAT |
| 46 | LA/BR | IGN |
| 52 | B | GND 2 |

| | |
|-----------------|---------------------|
| Connector No. | M86 |
| Connector Name | JOINT CONNECTOR-M34 |
| Connector Color | WHITE |



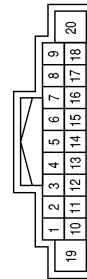
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | G | - |
| 2 | G | - |
| 3 | G | - |
| 4 | G | - |
| 5 | G | - |
| 7 | G | - |
| 8 | G | - |

| | |
|-----------------|---------------------|
| Connector No. | M85 |
| Connector Name | JOINT CONNECTOR-M33 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | - |
| 2 | R | - |
| 3 | R | - |
| 4 | R | - |
| 5 | R | - |
| 6 | R | - |
| 7 | LA/R | - |
| 8 | R | - |

| | |
|-----------------|------------|
| Connector No. | M83 |
| Connector Name | AUDIO UNIT |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------|
| 8 | R | ILL- |
| 9 | V | ILL+, LIGHT SW |
| 20 | B | GND |

AALIA4335GB

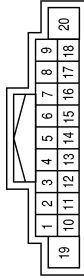
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ILLUMINATION

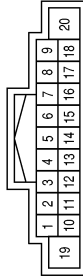
< WIRING DIAGRAM >

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| Connector No. | M108 |
| Connector Name | AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM) |
| Connector Color | WHITE |



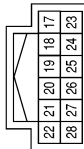
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 9 | V | ILL(+), LIGHT SW |
| 20 | B | GND |

| | |
|-----------------|---|
| Connector No. | M101 |
| Connector Name | AV CONTROL UNIT (WITHOUT BOSE AUDIO SYSTEM) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------|
| 9 | V | ILL(+), LIGHT SW |
| 20 | B | GND |

| | |
|-----------------|-----------------------------------|
| Connector No. | M90 |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Color | WHITE |



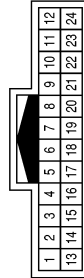
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 23 | R | -- |
| 24 | Y | -- |

| | |
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| Connector No. | M170 |
| Connector Name | JOINT CONNECTOR-M29 |
| Connector Color | WHITE |



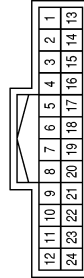
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | -- |
| 2 | B | -- |
| 3 | B | -- |
| 4 | B | -- |
| 6 | B | -- |
| 7 | B | -- |

| | |
|-----------------|--------------|
| Connector No. | M168 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | B | -- |
| 19 | LA/R | -- |

| | |
|-----------------|--------------|
| Connector No. | M156 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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

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ILLUMINATION

< WIRING DIAGRAM >

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|-----------------|-----------------------------|
| Connector No. | M196 |
| Connector Name | FRONT HEATED SEAT SWITCH RH |
| Connector Color | BROWN |



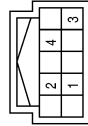
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | G | - |
| 2 | B | - |

| | |
|-----------------|--------------------|
| Connector No. | M188 |
| Connector Name | CVT SHIFT SELECTOR |
| Connector Color | BROWN |



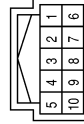
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 17 | G | - |
| 18 | B | - |

| | |
|-----------------|---------------------------------|
| Connector No. | M178 |
| Connector Name | AUTOMATIC BACK DOOR MAIN SWITCH |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | B | - |
| 4 | R | - |

| | |
|-----------------|-----------------|
| Connector No. | M252 |
| Connector Name | AWD LOCK SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | R | - |
| 4 | B | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | B | - |
| 9 | R | - |
| 10 | B | - |
| 11 | G | - |
| 15 | P | - |
| 16 | B | - |

| | |
|-----------------|-----------------------------|
| Connector No. | M197 |
| Connector Name | FRONT HEATED SEAT SWITCH LH |
| Connector Color | WHITE |



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

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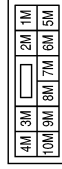
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ILLUMINATION

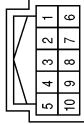
< WIRING DIAGRAM >

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| Connector No. | E28 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



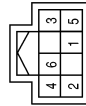
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6M | Y | - |

| | |
|-----------------|-----------------------------|
| Connector No. | M254 |
| Connector Name | HILL DESCENT CONTROL SWITCH |
| Connector Color | GRAY |



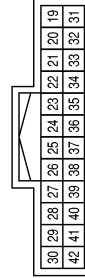
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | P | - |
| 4 | B | - |

| | |
|-----------------|-----------------------|
| Connector No. | M255 |
| Connector Name | WARNING SYSTEM SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | G | - |
| 4 | B | - |

| | |
|-----------------|--|
| Connector No. | E120 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | GRAY |



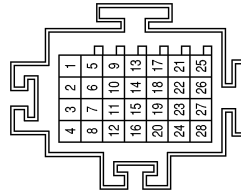
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 22 | P | CAN-L |
| 24 | L | CAN-H |
| 31 | B | 2ND SIGNAL GROUND |

| | |
|-----------------|--|
| Connector No. | E119 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------------------|
| 4 | Y | O LIGHT POSITION REAR LH |
| 12 | B | SIGNAL GROUND |

| | |
|-----------------|---------------------|
| Connector No. | E44 |
| Connector Name | JOINT CONNECTOR-E01 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | L | - |
| 6 | P | - |
| 9 | L | - |
| 10 | P | - |

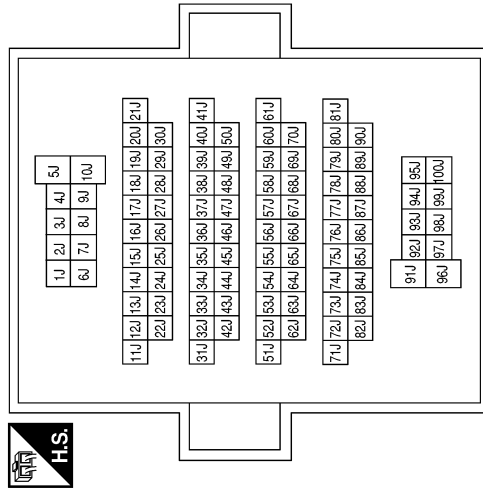
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ILLUMINATION

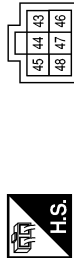
< WIRING DIAGRAM >

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 60J | P | - |
| 61J | L | - |

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

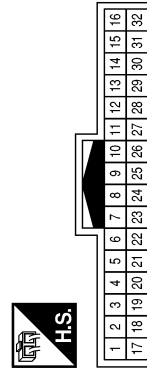


| Connector No. | E121 |
|-----------------|--|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | RED |



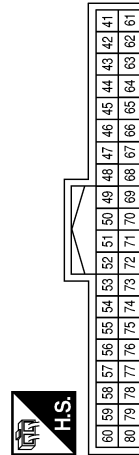
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 47 | B | POWER GROUND |

| Connector No. | B41 |
|-----------------|--------------|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 24 | P | - |
| 25 | L | - |

| Connector No. | B16 |
|-----------------|---------------------------|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GREEN |



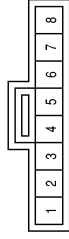
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 60 | L | CAN-H |
| 80 | P | CAN-L |

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ILLUMINATION

< WIRING DIAGRAM >

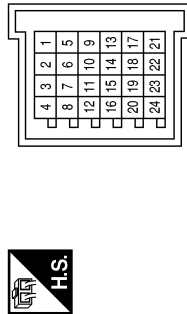
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|-----------------|----------|
| Connector No. | R6 |
| Connector Name | MAP LAMP |
| Connector Color | WHITE |



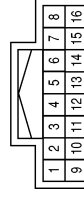
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | B | - |
| 8 | R | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | P | - |
| 4 | L | - |
| 7 | P | - |
| 8 | L | - |

| | |
|-----------------|---------------------|
| Connector No. | B63 |
| Connector Name | JOINT CONNECTOR-B01 |
| Connector Color | GRAY |

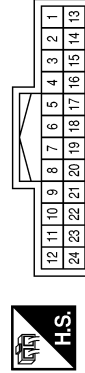


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|-----------------|-----------------------------------|
| Connector No. | D27 |
| Connector Name | DOOR MIRROR REMOTE CONTROL SWITCH |
| Connector Color | BLACK |



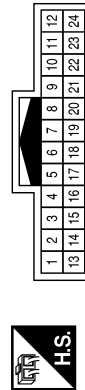
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 13 | LA/R | - |
| 14 | LA/B | - |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | LA/B | - |
| 19 | LA/R | - |

| | |
|-----------------|--------------|
| Connector No. | R11 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



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

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

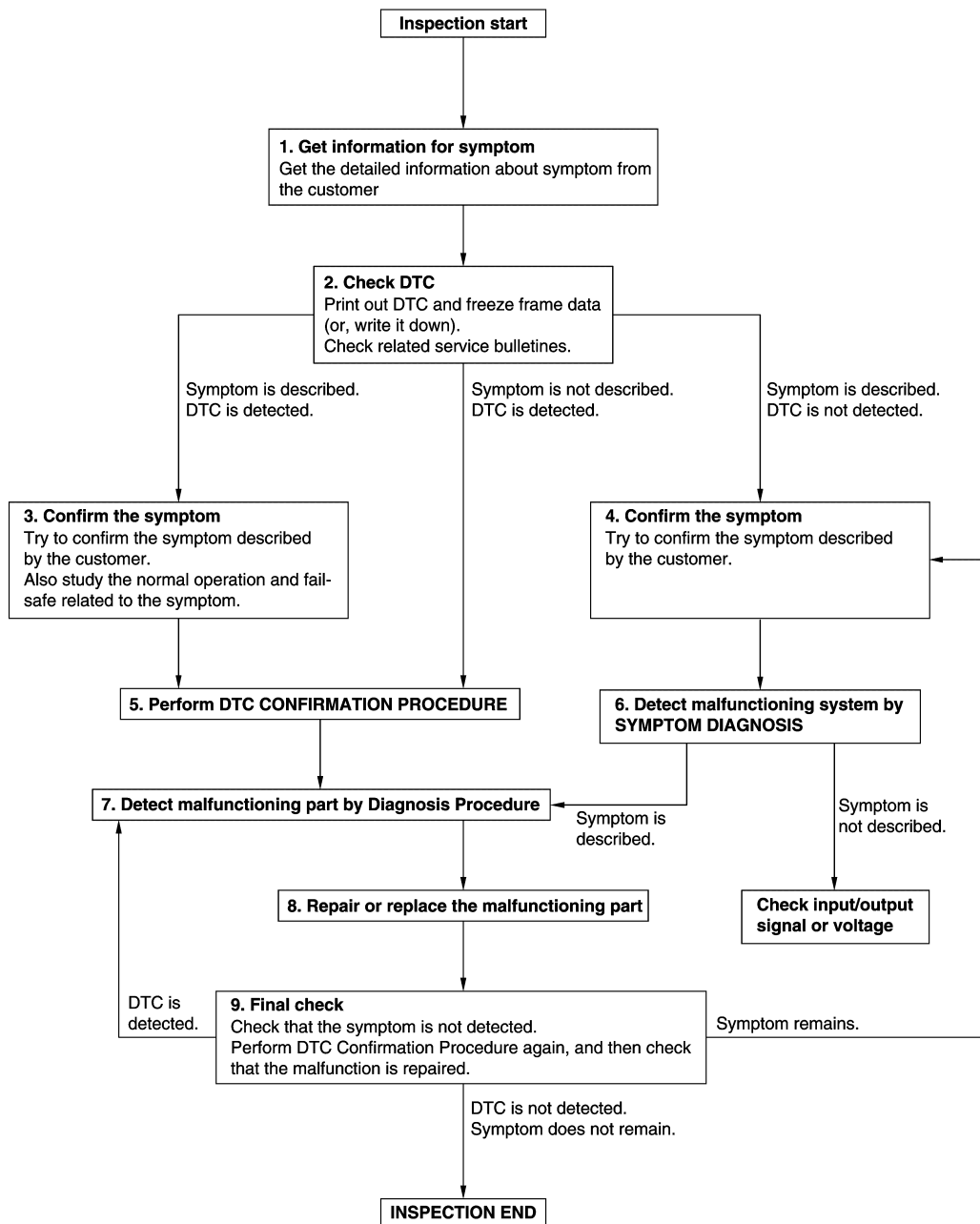
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000012423215

OVERALL SEQUENCE



DETAILED FLOW

Revision: September 2015

INL-43

2016 Rogue NAM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected:
 - Record DTC and freeze frame data (Print them out using CONSULT.)
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-45. "Intermittent Incident"](#).

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

Is malfunctioning part detected?

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

YES >> GO TO 8.

NO >> Check according to [GI-45, "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:0000000012423216

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

Component Function Check

INFOID:0000000012423217

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

Ⓟ CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Turn each interior room lamp ON:
 - Map lamp assembly
 - Room lamp
 - Personal lamps 2nd row
 - Luggage room lamp
3. Select "BATTERY SAVER" in "Active Test" of "BCM".
4. With operating the test items, check that each interior room lamp turns ON/OFF.

Off : Interior room lamp OFF

On : Interior room lamp ON

Does each interior room lamp turn ON/OFF?

YES >> Interior room lamp power supply circuit is normal.

NO >> Refer to [INL-46, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012423218

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

Ⓟ CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Select "BATTERY SAVER" in "Active Test" of "BCM".
3. With operating the test item, check continuity between BCM harness connector and ground.

| BCM | | (-) | Test item | Continuity |
|------------------------|---|--------|---------------|------------|
| (+) Connector Terminal | | | | |
| M18 | 4 | Ground | BATTERY SAVER | Off No |
| | | | On Yes | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#) (with Intelligent Key system) or [BCS-137, "Removal and Installation"](#) (without Intelligent Key system).

2. CHECK INTERIOR ROOM LAMP RELAY SIGNAL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the BCM connector and room lamp relay.
3. Check continuity between BCM harness connector and room lamp relay harness connector.

| BCM | | Room lamp relay | | Continuity |
|-----------|----------|-----------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M18 | 4 | M12 | 2 | Yes |

Is the inspection result normal?

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 3.
 NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP RELAY POWER SUPPLY CIRCUIT

1. Check voltage at room lamp relay harness connector.

| Room lamp relay | | Voltage (Approx.) |
|-----------------|----------|-------------------|
| Connector | Terminal | |
| M12 | 1 | Battery voltage |
| | 3 | |

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Repair or replace harnesses.

4. CHECK INTERIOR ROOM LAMP RELAY POWER SUPPLY OUTPUT

1. Reconnect room lamp relay.
 2. Check voltage at room lamp relay harness connector.

| Room lamp relay | | Voltage (Approx.) |
|-----------------|----------|-------------------|
| Connector | Terminal | |
| M12 | 5 | Battery voltage |

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Replace room lamp relay.

5. CHECK INTERIOR ROOM LAMP RELAY POWER SUPPLY OUTPUT

1. Disconnect the following connectors:
- Room lamp relay M12
 - Map lamp assembly R6
 - Room lamp R15
 - Personal lamps 2nd row R16
 - Vanity mirror lamp LH R14
 - Vanity mirror lamp RH R10
 - Luggage room lamp B118
2. Check continuity between room lamp relay connector M12 and interior room lamp connector in question.

| Room lamp relay | | Each interior room lamp | | | Continuity |
|-----------------|----------|-------------------------|----------|----------|------------|
| Connector | Terminal | Connector | Terminal | Terminal | |
| M12 | 5 | Map lamp assembly | R6 | 1 | Yes |
| | | Room lamp | R15 | 2 | |
| | | Personal lamps 2nd row | R16 | 2 | |
| | | Vanity mirror lamp LH | R14 | 1 | |
| | | Vanity mirror lamp RH | R10 | 1 | |
| | | Luggage room lamp | B118 | 1 | |

Is the inspection result normal?

- YES >> GO TO 6.
 NO >> Repair or replace harnesses.

6. CHECK INTERIOR ROOM LAMP RELAY POWER SUPPLY OUTPUT SHORT CIRCUIT

Check continuity between room lamp relay and ground.

| Room lamp relay | | - | Continuity |
|-----------------|----------|--------|------------|
| Connector | Terminal | | |
| M12 | 5 | Ground | No |

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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

NO >> Repair or replace harnesses.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:0000000012423219

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

NOTE:

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

Component Function Check

INFOID:0000000012423220

CAUTION:

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

- Interior room lamp power supply
- Map lamp bulb
- Room lamp bulb

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

ⓐCONSULT ACTIVE TEST

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

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

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

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-49, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012423221

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

ⓐCONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove all the bulbs of map lamp and room lamp.
3. Turn ignition switch ON.
4. Select "INT LAMP" in "Active Test" of "BCM".
5. With operating the test item, check continuity between BCM harness connector and ground.

| BCM | | Ground | Test item | | Continuity |
|-----------|----------|--------|-----------|----|------------|
| Connector | Terminal | | INT LAMP | | |
| M20 | 162 | | | On | Yes |
| | | | Off | No | |

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-76, "Removal and Installation"](#) (with Intelligent Key system) or [BCS-137, "Removal and Installation"](#) (without Intelligent Key system).

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector, map lamp assembly and room lamp connector.
3. Check continuity between BCM harness connector and map lamp assembly harness connector.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | Map lamp assembly | | Continuity |
|-----------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M20 | 162 | R6 | 3 | Yes |

4. Check continuity between BCM harness connector and room lamp harness connector.

| BCM | | Room lamp | | Continuity |
|-----------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M20 | 162 | R15 | 1 | Yes |

Is the inspection result normal?

YES >> Replace map lamp assembly or room lamp.

NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector, map lamp assembly connector and room lamp connector.
3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M20 | 162 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#) (with Intelligent Key system) or [BCS-137. "Removal and Installation"](#) (without Intelligent Key system).

NO >> Repair or replace harnesses.

LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

LUGGAGE ROOM LAMP CIRCUIT

Description

INFOID:000000012423222

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

Diagnosis Procedure

INFOID:000000012423223

CAUTION:

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

- Interior room lamp power supply
- Luggage room lamp bulb

1. CHECK LUGGAGE ROOM LAMP OUTPUT

1. Turn ignition switch OFF.
2. Remove the luggage room lamp bulb.
3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Condition | | Continuity |
|-----------|----------|--------|-----------|--------|------------|
| Connector | Terminal | | Back door | Open | Yes |
| B23 | 151 | | | Closed | No |

Is the inspection result normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-76. "Removal and Installation"](#) (with Intelligent Key system) or [BCS-137. "Removal and Installation"](#) (without Intelligent Key system).

2. CHECK LUGGAGE ROOM LAMP OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and luggage room lamp harness connector.

| BCM | | Luggage room lamp | | Continuity |
|-----------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| B23 | 151 | B118 | 2 | Yes |

Is the inspection result normal?

YES >> Replace luggage room lamp.

NO >> Repair or replace harnesses.

3. CHECK LUGGAGE ROOM LAMP SHORT CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| B23 | 151 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#) (with Intelligent Key system) or [BCS-137. "Removal and Installation"](#) (without Intelligent Key system).

NO >> Repair or replace harnesses.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:000000012423224

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

Component Function Check

INFOID:000000012423225

1. CHECK PUSH BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT ACTIVE TEST

1. Turn the ignition switch ON.
2. Select "ENGINE SW ILLUMI" in "Active Test" of "BCM".
3. With operating the test items, check that the push button ignition switch illumination turns ON/OFF.

On : Push button ignition switch illumination ON

Off : Push button ignition switch illumination OFF

Does the push button ignition switch illumination turn ON/OFF?

- YES >> Ignition switch illumination circuit is normal.
NO >> Refer to [INL-52, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012423226

1. CHECK PUSH BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

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

| (+) | | (-) | Condition | Voltage (Approx.) | |
|-----------------|----------|--------|--|-------------------|-----------------|
| Ignition switch | | | | | |
| Connector | Terminal | | | | |
| M17 | 8 | Ground | Push button ignition switch illumination | ON | Battery voltage |
| | | | | OFF | 0 V |

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK PUSH BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

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

| BCM | | Ignition switch | | Continuity |
|-----------|----------|-----------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M19 | 88 | M17 | 8 | Yes |

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harnesses.

3. CHECK PUSH BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M19 | 88 | | No |

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#) (with Intelligent Key system) or [BCS-137, "Removal and Installation"](#) (without Intelligent Key system).
NO >> Repair or replace harnesses.

4. CHECK PUSH BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Check continuity between ignition switch harness connector and ground.

| Ignition switch | | Ground | Continuity |
|-----------------|----------|--------|------------|
| Connector | Terminal | | |
| M17 | 7 | | Yes |

Is the inspection result normal?

- YES >> Replace ignition switch. Refer to [PCS-92, "Removal and Installation"](#).
NO >> Repair or replace harnesses.

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INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000012423227

CAUTION:

Perform the “Self Diagnostic Result” with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

| Symptom | Possible cause | Inspection item |
|---|--|---|
| All the following lamps do not turn ON: <ul style="list-style-type: none"> • Map lamp assembly • Room lamp • Luggage room lamp | <ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM | Interior room lamp power supply circuit Refer to INL-46 . |
| <ul style="list-style-type: none"> • Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed. | <ul style="list-style-type: none"> • Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM | Door switch circuit Refer to DLK-160 , " Component Function Check " (with Intelligent Key system) or DLK-335 , " Component Function Check " (without Intelligent Key system). Interior room lamp control circuit Refer to INL-49 . |
| 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-9 , " INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description ". |
| <ul style="list-style-type: none"> • Luggage room lamp does not turn ON even though the back door is open. • Luggage room lamp does not turn OFF even though the back door is closed. | <ul style="list-style-type: none"> • Harness between BCM and back door switch • Harness between BCM and luggage room lamp • BCM | Back door switch circuit Refer to DLK-160 , " Component Function Check " (with Intelligent Key system) or DLK-335 , " Component Function Check " (without Intelligent Key system). Luggage room lamp circuit Refer to INL-51 . |
| Ignition switch illumination does not illuminate. | <ul style="list-style-type: none"> • Harness between BCM and Ignition switch • BCM | Ignition switch illumination circuit Refer to INL-52 . |
| Interior room lamp battery saver does not activate. | BCM | Replace BCM. Refer to BCS-76 , " Removal and Installation " (with Intelligent Key system) or BCS-137 , " Removal and Installation " (without Intelligent Key system). |

MAP LAMP ASSEMBLY

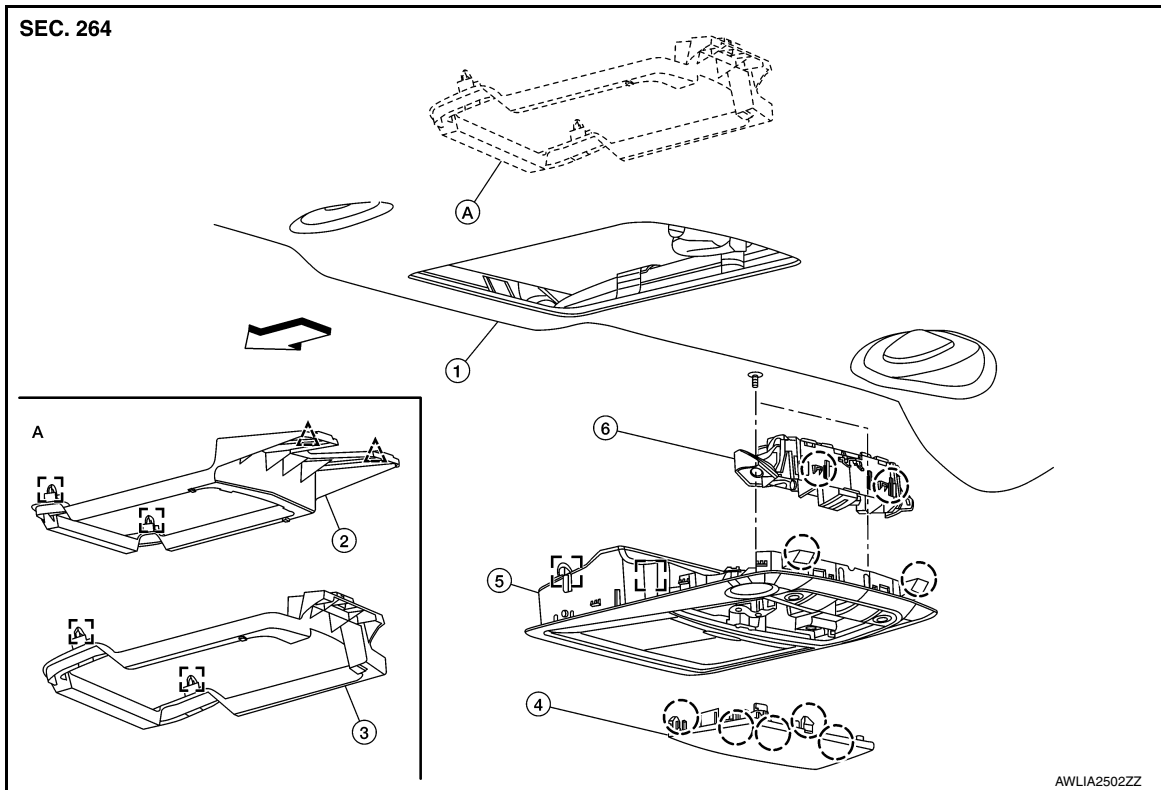
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP ASSEMBLY

Exploded View

INFOID:0000000012423228



- | | | |
|-----------------------------|---|--|
| 1. Headlining | 2. Map lamp assembly bracket (without moonroof) | 3. Map lamp assembly bracket (with moonroof) |
| 4. Moonroof switch finisher | 5. Map lamp assembly | 6. Map lamp |
| Metal clip | Clip | Pawl |
| Front | | |

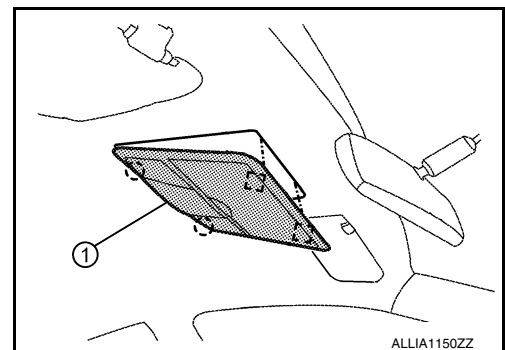
Removal and Installation

INFOID:0000000012423229

REMOVAL

1. Lower front edge of map lamp assembly (1) down from the headlining by releasing the metals clips, then slide forward to clear pawls at rear.

- Metal clip
- Pawl



2. Disconnect the harness connectors from map lamp assembly and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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MAP LAMP ASSEMBLY

< REMOVAL AND INSTALLATION >

Visually check the metal clips and pawls for deformation and damage during installation. Replace if necessary.

Bulb Replacement

INFOID:000000012423230

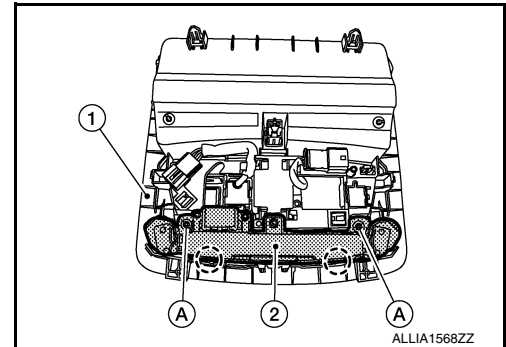
NOTE:

The map lamp bulbs are replaced as part of the map lamp.

REMOVAL

1. Remove the map lamp assembly. Refer to [INL-55, "Removal and Installation"](#).
2. Remove screws (A) from map lamp (2).
3. Release pawls and remove map lamp from the map lamp assembly (1).

○: Pawl



INSTALLATION

Installation is in the reverse order of removal.

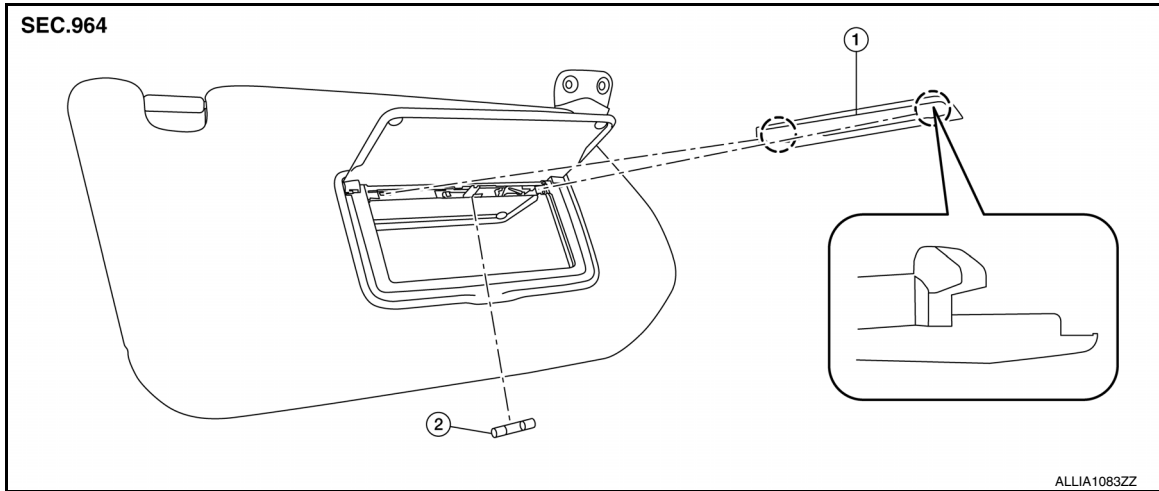
VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >

VANITY MIRROR LAMP

Exploded View

INFOID:000000012423231



1. Lens

2. Bulb

3. Pawl

Removal and Installation

INFOID:000000012423232

CAUTION:

Do not attempt to separate the vanity lamp from the sun visor or damage to the components may occur.

The vanity lamp is replaced as part of the sun visor. Refer to [INT-30, "Removal and Installation"](#).

Bulb or Lens Replacement

INFOID:000000012423233

WARNING:

Do not touch the glass surface of a bulb while it is lit or right after being turned OFF to prevent burns.

CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of lamp.
- Do not attempt to separate the vanity lamp from the sun visor or damage to the components may occur.

1. Insert a suitable tool into the gap between the lens and vanity mirror lamp, then release the lens pawls and remove.
2. Grasp the vanity mirror lamp bulb and pull straight out of the vanity mirror lamp to remove.
3. Install vanity mirror lamp bulb to vanity mirror lamp.
4. Install the vanity mirror lamp lens.

GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Removal and Installation

INFOID:000000012876339

WARNING:

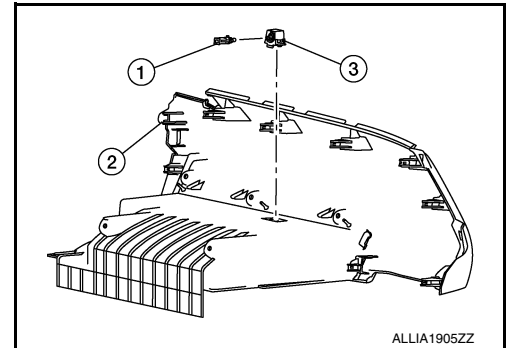
Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

REMOVAL

1. Remove the glove box assembly (2). Refer to [IP-24, "Removal and Installation"](#).
2. Rotate the glove box lamp socket (1) counterclockwise and remove.
3. Remove the glove box lamp socket housing (3) (if necessary).



INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:000000012876340

The glove box lamp bulb is serviced as part of the glove box lamp socket. Refer to [INL-58, "Removal and Installation"](#).

ROOM LAMP

< REMOVAL AND INSTALLATION >

ROOM LAMP

Removal and Installation

INFOID:000000012423234

WARNING:

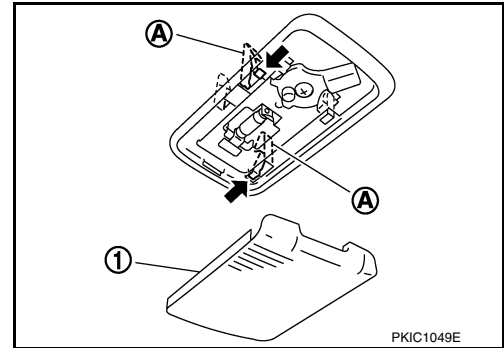
Do not touch the glass surface of a bulb while it is lit or right after being turned OFF to prevent burns.

CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
- Do not leave bulb out of reflector for a long time because moisture, smoke, etc. may affect the performance of lamp.

REMOVAL

1. Lower lens (1) and room lamp as an assembly by releasing room lamp metal clips (A) using a suitable tool.
2. Disconnect the harness connector from the room lamp and remove.



INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:000000012423235

WARNING:

Do not touch the glass surface of a bulb while it is lit or right after being turned OFF to prevent burns.

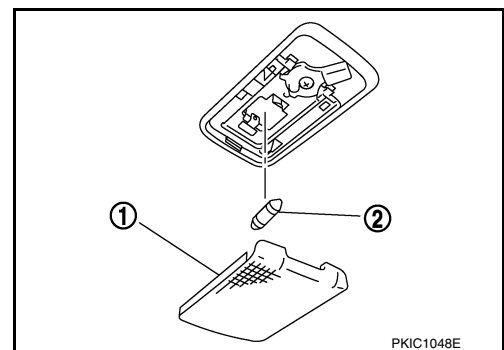
CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
- Do not leave bulb out of reflector for a long time because moisture, smoke, etc. may affect the performance of lamp.

1. Remove lens (1) by inserting suitable tool and releasing LH side (switch side) first.
2. Remove room lamp bulb (2).
3. Install room lamp bulb (2).
4. Install room lamp lens (1).

NOTE:

Insert the lens hook end (RH side) first to install lens.



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PERSONAL LAMP

< REMOVAL AND INSTALLATION >

PERSONAL LAMP

Removal and Installation

INFOID:000000012423236

The personal lamp is serviced as part of headlining. Refer to [INT-30. "Removal and Installation"](#).

Bulb or Lens Replacement

INFOID:000000012423237

WARNING:

Do not touch the glass surface of a bulb while it is lit or right after being turned OFF to prevent burns.

CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
 - Do not leave bulb out of lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of lamp.
 - Do not attempt to separate the personal lamp from the headlining or damage may occur.
1. Insert a suitable tool into the gap between the lens and personal lamp, then gently release the lens pawls and remove.
 2. Grasp the bulb and pull straight out from its socket to remove.
 3. Install personal lamp bulb to personal lamp.
 4. Install the personal lamp lens.

LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

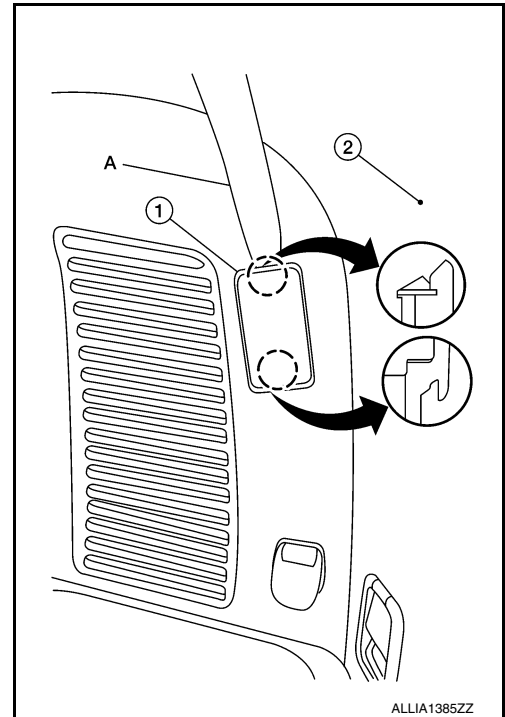
LUGGAGE ROOM LAMP

Removal and Installation

INFOID:000000012423238

REMOVAL

1. Insert a suitable tool (A) into the gap between the luggage lower finisher (RH) (2) and the top of luggage room lamp (1) to release the pawl.
⊖: Pawl



2. Disconnect the harness connector from the luggage room lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:000000012423239

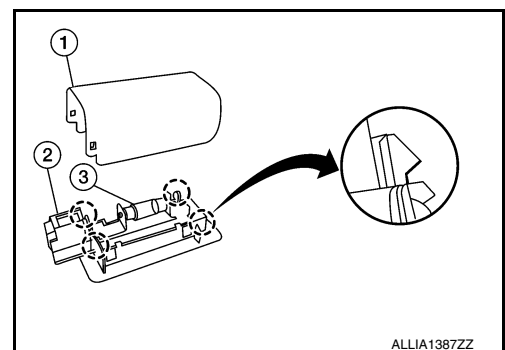
WARNING:

Do not touch the glass surface of a bulb while it is lit or right after being turned OFF to prevent burns.

CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of lamp.

1. Remove luggage room lamp. Refer to [INL-61, "Removal and Installation"](#).
2. Release pawls using a suitable tool and remove luggage room lamp cover (1).
⊖: Pawl
3. Push the tab to release one bulb end, then grasp the luggage room lamp bulb (3) and pull out the second end to remove.
4. Install luggage room lamp bulb (3) to luggage room lamp (2).
5. Install luggage room lamp cover (1).



6. Install luggage room lamp. Refer to [INL-61, "Removal and Installation"](#).

METER CONTROL SWITCH

< REMOVAL AND INSTALLATION >

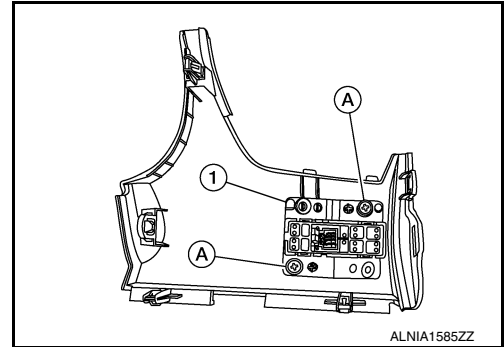
METER CONTROL SWITCH

Removal and Installation

INFOID:000000012423240

REMOVAL

1. Remove the instrument finisher A. Refer to [IP-15, "INSTRUMENT FINISHER A : Removal and Installation"](#).
2. Remove the screws (A) and the meter control switch (1).



INSTALLATION

Installation is in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000012423241

| Item | Wattage (W)* |
|-----------------------------|--------------|
| Map lamp | (-) |
| Room lamp (if equipped) | 8 |
| Vanity mirror lamp | 1.8 |
| Personal lamp (if equipped) | 8 |
| Luggage room lamp | 5 |

*:Always check with the parts department for the latest parts information.

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