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< PRECAUTION > [HALOGEN HEADLAMP]

# **PRECAUTION**

### **PRECAUTIONS**

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

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

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

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### **PREPARATION**

< PREPARATION >

[HALOGEN HEADLAMP]

# **PREPARATION**

# **PREPARATION**

Special Service Tool

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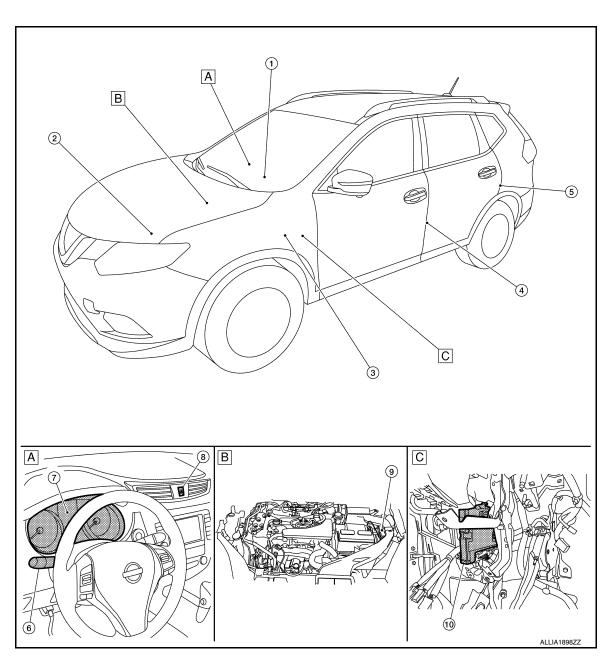
| Tool number<br>(TechMate No.)<br>Tool name |             | Description              |
|--------------------------------------------|-------------|--------------------------|
| —<br>(J-46534)<br>Trim Tool Set            | AWJIA0483ZZ | Removing trim components |

INFOID:0000000012422959

# SYSTEM DESCRIPTION

### **COMPONENT PARTS**

**Component Parts Location** 



A. Instrument panel

B. Engine compartment

C. Left side of instrument panel (view with trim panel removed)

| No. | Part                              | Function                                                                                                        |
|-----|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1.  | Optical sensor                    | Refer to EXL-10, "Optical Sensor".                                                                              |
| 2.  | LED headlamp control module       | Turns the headlamps ON according to the power supply from IPDM E/R.                                             |
| 3.  | Parking brake switch              | Transmits the parking brake switch signal to the combination meter to operate the daytime running light system. |
| 4.  | Front door switch LH (RH similar) | Transmits the door open signal to the BCM to operate the autolight system.                                      |
| 5.  | Rear door switch LH (RH similar)  | Transmits the door open signal to the Bow to operate the autolight system.                                      |

Revision: September 2015 **EXL-9** 2016 Rogue NAM

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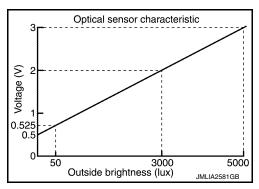
### < SYSTEM DESCRIPTION >

| No. | Part                                                    | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.  | Combination switch<br>(Lighting and turn signal switch) | Refer to BCS-9, "COMBINATION SWITCH READING SYSTEM: System Description" (with Intelligent Key system) or BCS-82, "COMBINATION SWITCH READING SYSTEM: System Description" (without Intelligent Key system).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7.  | Combination meter                                       | Refer to MWI-8, "METER SYSTEM: System Description".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 8.  | Hazard switch                                           | Refer to EXL-10, "Hazard Switch".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9.  | IPDM E/R                                                | <ul> <li>Supplies voltage to the load according to the request from BCM (via CAN communication).</li> <li>Refer to <a href="PCS-6">PCS-6</a>. "Component Parts Location" for detailed installation location.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10. | BCM                                                     | <ul> <li>Detects each switch condition by the combination switch reading function.</li> <li>Judges that the exterior lamps are turned ON according to the vehicle condition.</li> <li>Requests the headlamp (HI/LO), tail lamp and front fog lamp ON to IPDM E/R (via CAN communication).</li> <li>Requests high beam indicator lamp ON to the combination meter (via CAN communication).</li> <li>Judges the outside brightness from the optical sensor signal.</li> <li>Judges the ON/OFF timing according to the vehicle condition.</li> <li>Judges the ON/OFF status of the exterior lamp according to the outside brightness and the vehicle condition.</li> <li>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).</li> </ul> |

### **Optical Sensor**

INFOID:0000000012422960

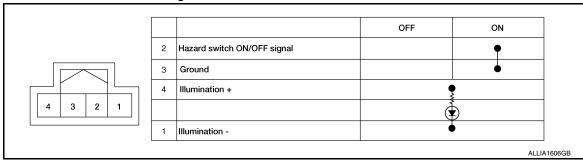
Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.



### **Hazard Switch**

INFOID:0000000012422961

Inputs the hazard switch ON/OFF signal to BCM.



#### [HALOGEN HEADLAMP]

#### SYSTEM

### **HEADLAMP SYSTEM**

**HEADLAMP SYSTEM: System Description** 

INFOID:0000000012422962

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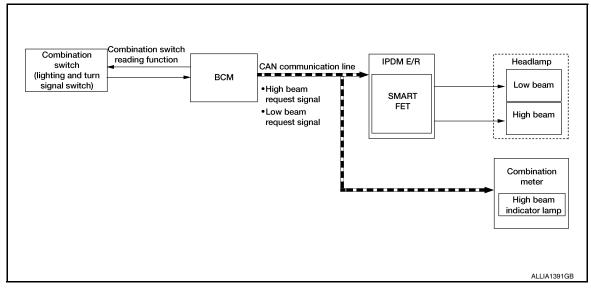
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#### SYSTEM DIAGRAM



#### OUTLINE

Headlamp is controlled by combination switch reading function and headlamp control function of BCM, and Smart FET control function of IPDM E/R.

#### **HEADLAMP (LO) OPERATION**

- BCM detects the combination switch condition with the combination switch reading function.
- BCM transmits the low beam request signal to IPDM E/R with CAN communication according to the headlamp (LO) ON condition.

#### Headlamp (LO) ON condition:

- Lighting switch 2ND
- Lighting switch AUTO (auto light function ON judgment)
- Lighting switch AUTO, with the front fog lamp switch ON and the ignition switch ON
- Lighting switch PASS

#### HEADLAMP (HI) OPERATION

 BCM transmits the high beam request signal to IPDM E/R and the combination meter with CAN communication according to the headlamp (HI) ON condition.

#### Headlamp (HI) ON condition:

- Lighting switch HI with the lighting switch 2ND or AUTO (auto light function ON judgment)
- Lighting switch PASS
- Lighting switch AUTO, with the front fog lamp switch ON, the ignition switch ON and lighting switch HI
- Combination meter turns the high beam indicator lamp ON according to the high beam request signal.
- IPDM E/R turns the headlamp ON according to the high beam request signal.

#### **HEADLAMP SYSTEM: Fail-Safe**

#### CAN COMMUNICATION CONTROL

When CAN communication with BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If no CAN communication is available with BCM

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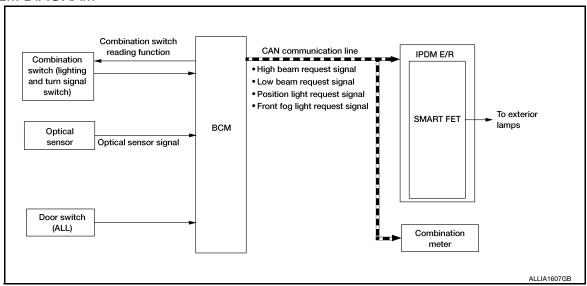
| Control part Fail-safe operation |                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Headlamp                         | <ul> <li>Turns ON the headlamp low beam when the ignition switch is turned ON</li> <li>Turns OFF the headlamp low beam when the ignition switch is turned OFF</li> </ul> |

### **AUTO LIGHT SYSTEM**

### **AUTO LIGHT SYSTEM: System Description**

INFOID:0000000012422964

#### SYSTEM DIAGRAM



#### **OUTLINE**

Auto light system is controlled by each function of BCM and IPDM E/R.

#### Controlled by BCM:

- Combination switch reading function
- Headlamp control function
- Auto light function
- Delay timer function
- Auto light adjustment system

#### Controlled by IPDM E/R:

- Auto light system has the auto light function and delay timer function.
- Auto light function automatically turns ON/OFF the exterior lamps\* and each illumination automatically, depending on the outside brightness.
- When auto light system turns the exterior lamps ON with the ignition switch OFF, delay timer function turns
  the exterior lamps OFF, depending on the vehicle condition with the auto light function after a certain period
  of time.
- \*: Headlamp (LO/HI), parking lamp, side marker lamp, tail lamp and front fog lamp (Headlamp HI and front fog lamp depend on the combination switch condition).

#### **AUTO LIGHT FUNCTION**

- BCM detects the combination switch condition with the combination switch reading function.
- BCM supplies voltage to optical sensor when the ignition switch is turned ON or ACC.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM judges outside brightness from the optical sensor signal and judges ON/OFF condition of the exterior lamp and each illumination according to the outside brightness.
- BCM transmits each request signal to IPDM E/R and combination meter via CAN communication according to ON/OFF condition by the auto light function.

#### NOTE:

ON/OFF timing differs based on the sensitivity from the setting. The setting can be set by CONSULT. Refer to BCS-19, "HEAD LAMP: CONSULT Function (BCM - HEADLAMP)".

#### AUTO LIGHT ADJUSTMENT SYSTEM

#### [HALOGEN HEADLAMP]

The auto light adjustment system automatically dims/brightens the display according to brightness outside the vehicle when lighting switch 1ST, lighting switch 2ND or lighting switch AUTO is operated. Refer to EXL-12, "AUTO LIGHT SYSTEM: System Description".

#### DELAY TIMER FUNCTION

BCM turns the exterior lamp OFF depending on the vehicle condition with the auto light function when the ignition switch is turned OFF.

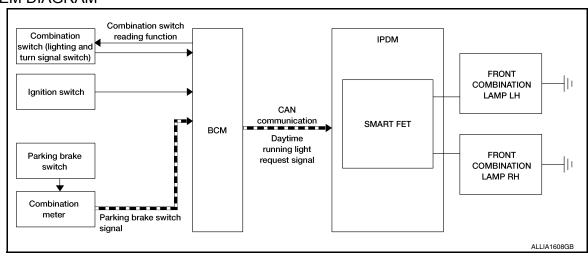
- Turns the exterior lamp OFF 5 minutes after detecting that any door opens. (Door switch ON).
- Turns the exterior lamp OFF a certain period of time\* after closing all doors. (Door switch ON→OFF).
- Turns the exterior lamp OFF with the ignition switch ACC or the light switch OFF.
- \*: The preset time is 45 seconds. The timer operating time can be set by 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).

When any position other than the light switch AUTO is set, the auto light system function switches to the exterior lamp battery saver function.

### DAYTIME RUNNING LIGHT SYSTEM

### DAYTIME RUNNING LIGHT SYSTEM: System Description

SYSTEM DIAGRAM



#### OUTLINE

 Daytime running light is controlled by daytime running light control function and combination switch reading function of BCM, and smart FET of IPDM E/R.

#### DAYTIME RUNNING LIGHT OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM detects the vehicle condition according to ignition switch
- BCM detects the parking brake condition by the parking brake switch signal received from combination meter using CAN communication.
- BCM transmits the daytime running light request signal to IPDM E/R using CAN communication according to the daytime running light ON condition.

Daytime running light ON condition:

- Vehicle condition READY
- Lighting switch OFF or 1ST
- Lighting switch AUTO, and the auto light function OFF judgment
- Parking brake switch OFF
- IPDM E/R controls the daytime running light request signal.
- Power is supplied from the IPDM E/R to the daytime lights.

#### TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

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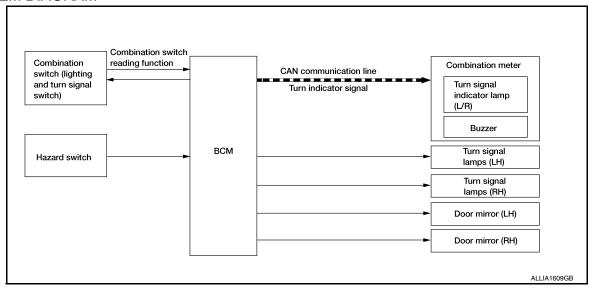
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### TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description

INFOID:0000000012422966

#### SYSTEM DIAGRAM



#### **OUTLINE**

Turn signal lamp and the hazard warning lamp is controlled by combination switch reading function and the flasher control function of BCM.

#### TURN SIGNAL LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM supplies voltage to the right (left) turn signal lamp circuit when the ignition switch is ON and the turn signal switch is in the right (left) position. BCM blinks the turn signal lamp.

#### HAZARD WARNING LAMP OPERATION

BCM supplies voltage to both turn signal lamp circuit when the hazard switch is ON. BCM blinks the hazard warning lamp.

#### TURN SIGNAL INDICATOR LAMP AND TURN SIGNAL OPERATION

- BCM transmits the turn signal indicator lamp signal to the combination meter using CAN communication while the turn signal lamp and the hazard warning lamp are operating.
- Combination meter outputs the turn signal sound with the integrated buzzer while blinking the turn signal indicator lamp according to the turn signal indicator lamp signal.

#### HIGH FLASHER OPERATION

- BCM detects the turn signal lamp circuit status from the current value.
- BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while operating the hazard warning lamp.

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System De-

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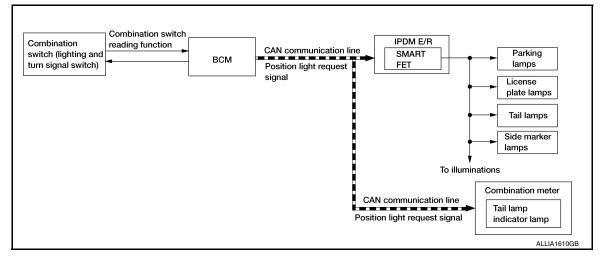
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scription INFOID:0000000012422967

#### SYSTEM DIAGRAM



#### **OUTLINE**

Parking, license plate, side marker and tail lamps are controlled by combination switch reading function and headlamp control function of BCM, and smart FET of IPDM E/R.

#### PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the position light request signal to IPDM E/R and the combination meter via CAN communication according to the ON/OFF condition of the parking, license plate, side marker and tail lamps.

Parking, license plate, side marker and tail lamps 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 the parking, license plate, side marker and tail lamps ON according to the position light request signal.
- Combination meter turns the tail lamp indicator lamp ON according to the position light request signal.

### PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: Fail-Safe

INFOID:0000000012422968

#### CAN COMMUNICATION CONTROL

When CAN communication with BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If no CAN communication is available with BCM

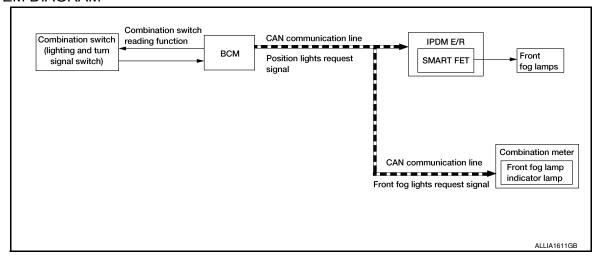
| Control part                                                                            | Fail-safe operation                                                                                                         |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Parking lamp     License plate lamp     Illumination     Tail lamp     Side marker lamp | Turns ON the tail lamp when the ignition switch is turned ON Turns OFF the tail lamp when the ignition switch is turned OFF |

### FRONT FOG LAMP SYSTEM

### FRONT FOG LAMP SYSTEM: System Description

INFOID:0000000012422969

#### SYSTEM DIAGRAM



#### **OUTLINE**

Front fog lamp is controlled by combination switch reading function, front fog lamp control function of BCM, and smart FET function of IPDM E/R.

#### FRONT FOG LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front fog lights request signal to IPDM E/R and the combination meter via CAN communication according to the front fog lamp ON condition.

#### Front fog lamp ON condition:

- Front fog lamp switch ON, and any of the following conditions are satisfied (except for the high beam ON):
- Lighting switch 2ND
- Lighting switch AUTO and the ignition switch ON

IPDM E/R turns the front fog lamp ON according to the front fog lights request signal.

Combination meter turns the front fog lamp indicator lamp ON according to the front fog lights request signal.

#### FRONT FOG LAMP SYSTEM: Fail-Safe

INFOID:0000000012422970

#### CAN COMMUNICATION CONTROL

When CAN communication with BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If no CAN communication is available with BCM

| Control part   | Fail-safe operation |
|----------------|---------------------|
| Front fog lamp | Front fog lamp OFF  |

#### EXTERIOR LAMP BATTERY SAVER SYSTEM

### EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description

INFOID:0000000012422971

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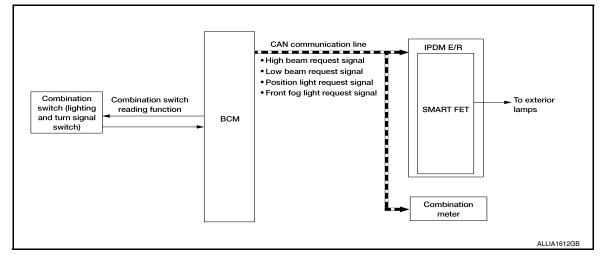
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#### SYSTEM DIAGRAM



#### **OUTLINE**

• Exterior lamp battery saver system is controlled by each function of BCM and IPDM E/R.

Controlled by BCM:

- Combination switch reading function
- Headlamp control function
- Exterior lamp battery saver function

#### Controlled by IPDM E/R:

- BCM turns the exterior lamps\* OFF after a period of time to prevent the battery from over-discharge when the ignition switch is turned OFF with the exterior lamps ON.
- \*: Headlamp (LO/HI), parking lamp, tail lamp, side marker lamp, license plate lamp and front fog lamp

#### EXTERIOR LAMP BATTERY SAVER ACTIVATION

BCM activates the timer and turns the exterior lamp OFF 5 minutes after the ignition switch is turned from ON  $\rightarrow$  OFF with the exterior lamps ON.

#### NOTE:

- Headlamp control function turns the exterior lamps ON normally when the ignition switch is turned ACC or set the vehicle to READY (both before and after the exterior lamp battery saver is turned OFF).
- The timer starts at the time that the lighting switch is turned from OFF → 1ST or 2ND with the exterior lamps OFF.

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# DIAGNOSIS SYSTEM (BCM) WITH INTELLIGENT KEY

WITH INTELLIGENT KEY: CONSULT Function (BCM - COMMON ITEM) INFOID:000000012731438

#### 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> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul> |
| CAN Diag Support Mntr  | The result of transmit/receive diagnosis of CAN communication is displayed.                                                                |

#### SYSTEM APPLICATION

BCM can perform the following functions.

|                                      |                 |                    |                        | Direct D     | Diagnosti   | c Mode       |               |                       |
|--------------------------------------|-----------------|--------------------|------------------------|--------------|-------------|--------------|---------------|-----------------------|
| System                               | Sub System      | 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 |                    |                        |              | ×           |              |               |                       |

WITH INTELLIGENT KEY: CONSULT Function (BCM - HEADLAMP)

INFOID:0000000012731439

# **DIAGNOSIS SYSTEM (BCM)**

### < SYSTEM DESCRIPTION >

### [HALOGEN HEADLAMP]

| Monitor Item [Unit]                 | Description                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------|
| PUSH SW [On/Off]                    | Indicates condition of push-button ignition switch.                              |
| ENGINE STATE [STOP/STALL/CRANK/RUN] | Indicates engine status received from ECM on CAN communication line.             |
| VEH SPEED 1 [km/h]                  | Indicates vehicle speed signal received from ABS on CAN communication line.      |
| TURN SIGNAL R [On/Off]              |                                                                                  |
| TURN SIGNAL L [On/Off]              |                                                                                  |
| TAIL LAMP SW [On/Off]               |                                                                                  |
| HI BEAM SW [On/Off]                 |                                                                                  |
| HEAD LAMP SW [On/Off]               | Indicates condition of combination switch.                                       |
| LIGHT OFF SW [On/Off]               |                                                                                  |
| PASSING SW [On/Off]                 |                                                                                  |
| AUTO LIGHT SW [On/Off]              |                                                                                  |
| FR FOG SW [On/Off]                  |                                                                                  |
| 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.                                         |
| OPTI SEN (DTCT) [V]                 | Indicates outside brightness voltage signal from optical sensor.                 |
| OPTI SEN (FILT) [V]                 | Indicates outside brightness voltage signal from optical sensor filtered by BCM. |
| OPTICAL SENSOR [On/Off]             | Indicates condition of optical sensor.                                           |

| Test Item             | Description                                                                    |  |
|-----------------------|--------------------------------------------------------------------------------|--|
| FR FOG LAMP           | This test is able to check front fog lamp operation [On/Off].                  |  |
| STOP LAMP 1           | This test is able to check rear combination lamp stop lamp operation [On/Off]. |  |
| STOP LAMP 3           | This test is able to check high-mounted stop lamp operation [On/Off].          |  |
| DAYTIME RUNNING LIGHT | This test is able to check daytime running light operation [On/Off].           |  |
| ILL DIM SIGNAL        | This test is able to check illumination dimmer signal [On/Off].                |  |

### **WORK SUPPORT**

| Support Item           | Setting | Description                                            |  |
|------------------------|---------|--------------------------------------------------------|--|
| TWILIGHT ON            | MODE2*  | Autolamp function ON.                                  |  |
| TWILIGHT ON            | MODE1   | Autolamp function OFF.                                 |  |
| CUSTOM A/LIGHT SETTING | MODE4   | Less sensitive than normal setting (turns ON later).   |  |
|                        | MODE3   | More sensitive than MODE2.                             |  |
|                        | MODE2   | More sensitive than normal setting (turns ON earlier). |  |
|                        | MODE1*  | Normal setting.                                        |  |

**EXL-19** Revision: September 2015 2016 Rogue NAM

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| Support Item  | Setting | Description                                  |
|---------------|---------|----------------------------------------------|
|               | MODE 8  |                                              |
|               | MODE 7  |                                              |
|               | MODE 6  |                                              |
| ILL DELAY SET | MODE 5  | Autolamp delay timer.                        |
| ILL DELAT SET | MODE 4  | - Autolamp delay timer.                      |
|               | MODE 3  |                                              |
|               | MODE 2  |                                              |
|               | MODE 1* |                                              |
|               | MODE 4  | This item is displayed but cannot be used    |
| WIPER LINK    | MODE 3* | With wiper INT, LO and HI                    |
| WIPERLINK     | MODE 2  | With wiper LO and HI                         |
|               | MODE 1  | Without wiper linked and auto light function |

<sup>\*:</sup> Initial setting

### WITH INTELLIGENT KEY: CONSULT Function (BCM - FLASHER)

INFOID:0000000012731440

#### **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.                  |
| TURN SIGNAL R [On/Off] | Indicates condition of turn signal function of combination switch.   |
| TURN SIGNAL L [On/Off] | - indicates condition of turn signal function of combination switch. |
| HAZARD SW [On/Off]     | Indicates condition of hazard 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.           |
| RKE-PANIC [On/Off]     | Indicates condition of panic alarm signal from Intelligent Key.      |

#### **WORK SUPPORT**

| Support Item              | Setting | Description                 |
|---------------------------|---------|-----------------------------|
| 3-TIME FLASHER SETTING    | On*     | 3-time flasher setting ON.  |
| 3-TIME I LASTILIT SETTING | Off     | 3-time flasher setting OFF. |

<sup>\*:</sup> Initial setting

### WITHOUT INTELLIGENT KEY

### WITHOUT INTELLIGENT KEY: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012731441

#### APPLICATION ITEM

 ${\tt CONSULT} \ performs \ the \ following \ functions \ via \ {\tt CAN} \ communication \ with \ {\tt BCM}.$ 

| 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.        |

### **DIAGNOSIS SYSTEM (BCM)**

### < SYSTEM DESCRIPTION >

### [HALOGEN HEADLAMP]

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| Direct Diagnostic Mode | Description                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Work support           | The settings for BCM functions can be changed.                                                                                             |
| Configuration          | <ul> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul> |
| CAN Diag Support Mntr  | The result of transmit/receive diagnosis of CAN communication is displayed.                                                                |

#### SYSTEM APPLICATION

BCM can perform the following functions.

|                                      |                      | Direct Diagnostic Mode |                        |              |             |              |               |                       |
|--------------------------------------|----------------------|------------------------|------------------------|--------------|-------------|--------------|---------------|-----------------------|
| System                               | Sub System           | 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             |                        |                        | ×            | ×           | ×            |               |                       |
| Remote keyless entry system          | MULTI REMOTE ENT     |                        |                        |              |             | ×            |               |                       |
| Exterior lamp                        | HEADLAMP             |                        |                        | ×            | ×           |              |               |                       |
| Wiper and washer                     | WIPER                |                        |                        | ×            | ×           | ×            |               |                       |
| Turn signal and hazard warning lamps | FLASHER              |                        |                        | ×            | ×           |              |               |                       |
| Combination switch                   | COMB SW              |                        |                        | ×            |             |              |               |                       |
| всм                                  | ВСМ                  | ×                      | ×                      |              |             | ×            | ×             | ×                     |
| Immobilizer                          | IMMU                 |                        | ×                      |              | ×           |              |               |                       |
| Interior room lamp battery saver     | BATTERY SAVER        |                        |                        | ×            | ×           |              |               |                       |
| Back door open                       | TRUNK                |                        |                        | ×            |             |              |               |                       |
| Vehicle security system              | THEFT ALM            |                        |                        | ×            | ×           | ×            |               |                       |
| RAP system                           | RETAINED PWR         |                        |                        | ×            |             |              |               |                       |
| TPMS                                 | AIR PRESSURE MONITOR |                        | ×                      | ×            | ×           | ×            |               |                       |

# WITHOUT INTELLIGENT KEY: CONSULT Function (BCM - HEADLAMP) INFOID:000000012731442

### **DATA MONITOR**

| Monitor Item [Unit]    | Description                                  |
|------------------------|----------------------------------------------|
| TURN SIGNAL R [On/Off] |                                              |
| TURN SIGNAL L [On/Off] |                                              |
| TAIL LAMP SW [On/Off]  |                                              |
| HI BEAM SW [On/Off]    | Indicates condition of combination switch.   |
| HEAD LAMP SW [On/Off]  |                                              |
| LIGHT OFF SW [On/Off]  |                                              |
| PASSING SW [On/Off]    |                                              |
| 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.  |

### **DIAGNOSIS SYSTEM (BCM)**

### < SYSTEM DESCRIPTION >

### [HALOGEN HEADLAMP]

| Monitor Item [Unit] | Description                                 |
|---------------------|---------------------------------------------|
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| DOOR SW-BK [On/Off] | Indicates condition of back door switch.    |

### **ACTIVE TEST**

| Test Item             | Description                                                                   |
|-----------------------|-------------------------------------------------------------------------------|
| DAYTIME RUNNING LIGHT | This test is able to check daytime running lamp operation [On/Off].           |
| ILL DIM SIGNAL        | This test is able to check head lamp illumination dimming operation [On/Off]. |

# WITHOUT INTELLIGENT KEY: CONSULT Function (BCM - FLASHER)

INFOID:0000000012731443

### **DATA MONITOR**

| Monitor Item [Unit]    | Description                                                          |
|------------------------|----------------------------------------------------------------------|
| TURN SIGNAL R [On/Off] | Indicates condition of turn signal function of combination switch.   |
| TURN SIGNAL L [On/Off] | - indicates condition of turn signal function of combination switch. |
| HAZARD SW [On/Off]     | Indicates condition of hazard 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.           |
| RKE-PANIC [On/Off]     | Indicates condition of panic alarm signal from Intelligent Key.      |

### **ACTIVE TEST**

| Test Item | Description                                                        |
|-----------|--------------------------------------------------------------------|
| FLASHER   | This test is able to check turn signal lamp operation [Off/LH/RH]. |

< SYSTEM DESCRIPTION >

[HALOGEN HEADLAMP]

# DIAGNOSIS SYSTEM (IPDM E/R)

### CONSULT Function (IPDM E/R)

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### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with IPDM E/R.

| Direct Diagnostic Mode | Description                                                                 |
|------------------------|-----------------------------------------------------------------------------|
| ECU Identification     | The IPDM E/R part number is displayed.                                      |
| Self Diagnostic Result | The IPDM E/R self diagnostic results are displayed.                         |
| Data Monitor           | The IPDM E/R input/output data is displayed in real time.                   |
| Active Test            | The IPDM E/R activates outputs to test components.                          |
| CAN Diag Support Mntr  | The result of transmit/receive diagnosis of CAN communication is displayed. |

#### **ECU IDENTIFICATION**

The IPDM E/R part number is displayed.

### SELF DIAGNOSTIC RESULT

Refer to PCS-26, "DTC Index".

#### **DATA MONITOR**

| Monitor Item [Unit]              | Description                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------|
| REVERSE SIGNAL [Open/Close]      | Indicates condition of transmission range switch R (Reverse) position.               |
| IGN RELAY [Open/Close]           | Indicates condition of ignition relay-1.                                             |
| PUSH SW [Open/Close]             | Indicates condition of push-button ignition switch.                                  |
| INTERLOCK/PNP SW [Open/Close]    | Indicates condition of transmission range switch P (Park) and N (Neutral) positions. |
| OIL PRESSURE SW [Open/Close]     | Indicates condition of oil pressure switch.                                          |
| HOOD SW [Open/Close]             | Indicates condition of hood switch.                                                  |
| COMPRESSOR [OFF/ON]              | Indicates condition of A/C compressor.                                               |
| HORN RELAY [OFF/ ON]             | Indicates condition of horn relay.                                                   |
| COOLING FAN [OFF/ON]             | Indicates condition of cooling fan relay-1.                                          |
| FRONT WIPER HI/LO RELAY [OFF/ON] | Indicates condition of front wiper high relay.                                       |
| FRONT WIPER RELAY [OFF/ON]       | Indicates condition of front wiper relay.                                            |
| IGN RELAY OFF STATUS [OFF/ON]    | Indicates condition of ignition relay-1 OFF status.                                  |
| IGN RELAY ON STATUS [OFF/ON]     | Indicates condition of ignition relay-1 ON status.                                   |
| COOLING FAN RELAY 1 [OFF/ON]     | Indicates condition of cooling fan relay-1.                                          |
| STARTER RELAY [OFF/ON]           | Indicates condition of starter relay.                                                |
| COMP ECV DUTY [%]                | Indicates condition of A/C compressor.                                               |
| COOLING FAN RELAY 2 [%]          | Indicates condition of cooling fan relay-2.                                          |
| FR FOG LAMP LH [%]               | Indicates condition of front fog lamp LH.                                            |
| FR FOG LAMP RH [%]               | Indicates condition of front fog lamp RH.                                            |
| PARKING LAMP [%]                 | Indicates condition of parking lamp.                                                 |
| TAIL LAMP LH [%]                 | Indicates condition of tail lamp LH.                                                 |
| TAIL LAMP RH [%]                 | Indicates condition of tail lamp RH.                                                 |
| DAYTIME RUNNING LIGHT LH [%]     | Indicates condition of daytime running light LH.                                     |
| DAYTIME RUNNING LIGHT RH [%]     | Indicates condition of daytime running light RH.                                     |
| HEADLAMP (HI) LH [%]             | Indicates condition of headlamp high beam LH.                                        |

### < SYSTEM DESCRIPTION >

### [HALOGEN HEADLAMP]

| SYSTEM DESCRIPTION > Monitor Item [Unit] | Description                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------|
| HEADLAMP (HI) RH [%]                     | Indicates condition of headlamp high beam RH.                                        |
| HEADLAMP (LO) LH [%]                     | Indicates condition of headlamp low beam LH.                                         |
| HEADLAMP (LO) RH [%]                     | Indicates condition of headlamp low beam RH.                                         |
| A/C RELAY STUCK [NG/OK]                  | Indicates condition of A/C relay.                                                    |
| A/C RELAY [Off/On]                       | Indicates condition of A/C relay.                                                    |
| COMP ECV STATUS [NG/OK]                  | Indicates condition of A/C compressor.                                               |
| VEHICLE SECURITY HORN [Off/On]           | Indicates condition of horn relay.                                                   |
| BATTERY CURRENT SENSOR [NG/OK]           | Indicates condition of battery current sensor.                                       |
| FRONT FOG LAMP [Off/On]                  | Indicates condition of front fog lamps.                                              |
| COMP ECV CURRENT [A]                     | Indicates condition of A/C compressor current.                                       |
| BATTERY VOLTAGE [V]                      | Indicates condition of battery voltage.                                              |
| COOLING FAN DUTY [%]                     | Indicates condition of cooling fans.                                                 |
| HOOD SW (CAN) [OPEN/CLOSE]               | Indicates condition of hood switch.                                                  |
| FRONT WIPER [STOP/LOW/HIGH]              | Indicates condition of front wiper motor.                                            |
| FR WIPER STOP POSITION [STOP P/ACTIVE P] | Indicates condition of front wiper motor stop.                                       |
| HEADLAMP (HI) [Off/On]                   | Indicates condition of headlamp high beams.                                          |
| HEADLAMP (LO) [Off/On]                   | Indicates condition of headlamp low beams.                                           |
| IGNITION RELAY STATUS [Off/On]           | Indicates condition of ignition relay-1.                                             |
| IGN RELAY MONITOR [Off/On]               | Indicates condition of ignition relay-1 feedback.                                    |
| IGNITION POWER SUPPLY [Off/On]           | Indicates condition of ignition relay-1.                                             |
| INTERLOCK/PNP SW (CAN) [Off/On]          | Indicates condition of transmission range switch P (Park) and N (Neutral) positions. |
| PUSH-BUTTON IGN SW (CAN) [Off/On]        | Indicates condition of push-button ignition switch.                                  |
| TAIL LAMP [Off/On]                       | Indicates condition of tail lamps.                                                   |
| REVERSE SIGNAL (CAN) [Off/On]            | Indicates condition of transmission range switch R (Reverse) position.               |
| ST&ST CONT RELAY STATUS [Off/ST R On]    | Indicates condition of starter cut and starter relays.                               |
| STARTER MOTOR STATUS [Off/On]            | Indicates condition of starter motor.                                                |
| STARTER RELAY (CAN) [LOW/HIGH]           | Indicates condition of starter relay.                                                |
| IPDM NOT SLEEP [NO RDY/RDY]              | Indicates condition of IPDM E/R sleep status.                                        |
| AFTER COOLING TIME [No request/Request]  | Indicates condition of cooling fan request.                                          |
| AFTER COOLING SPEED [%]                  | Indicates condition of cooling fans.                                                 |
| COOLING FAN TYPE [NISSAN/RENAULT]        | Indicates cooling fan type.                                                          |
| COMPRESSOR REQ1 [Off/On]                 | Indicates condition of A/C compressor request.                                       |
| VHCL SECURITY HORN REQ [Off/On]          | Indicates condition of horn relay request.                                           |
| DTRL REQ [Off/On]                        | Indicates condition of daytime running light request.                                |
| SLEEP/WAKE UP [WAKEUP/SLEEP]             | Indicates condition of IPDM E/R sleep/wake.                                          |
| CRANKING ENABLE-TCM [NG/OK]              | Indicates condition of crank enable from TCM.                                        |
| CRANKING ENABLE-ECM [NG/OK]              | Indicates condition of crank enable from ECM.                                        |
| CAN DIAGNOSIS [NG/OK]                    | Indicates condition of CAN diagnosis.                                                |
| FRONT FOG LAMP REQ [Off/On]              | Indicates condition of front fog lamp request.                                       |
| HIGH BEAM REQ [Off/On]                   | Indicates condition of headlamp high beam request.                                   |
| HORN CHIRP [Off/On]                      | Indicates condition of horn relay request.                                           |
| COOLING FAN REQ [%]                      | Indicates condition of cooling fan request.                                          |
| ENGINE STATUS [STOP/RUN/IDLING]          | Indicates condition of engine status.                                                |
| LINGINE STATUS [STUP/KUN/IDLING]         | mulcates condition of engine status.                                                 |

### < SYSTEM DESCRIPTION >

### [HALOGEN HEADLAMP]

| Monitor Item [Unit]                | Description                                                                                                                                                                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TURN SIGNAL REQ [Off/LH/RH]        | Indicates condition of turn signal request.                                                                                                                                                                                                                                                               |
| FR WIPER REQ [RETURN/LOW/HIGH]     | Indicates condition of front wiper motor request.                                                                                                                                                                                                                                                         |
| SHIFT POSITION [P/R/N/D/L]         | Indicates condition of transmission range switch positions.                                                                                                                                                                                                                                               |
| LOW BEAM REQ [Off/On]              | Indicates condition of headlamp low beam request.                                                                                                                                                                                                                                                         |
| POSITION LIGHT REQ [Off/On]        | Indicates condition of parking lamp request.                                                                                                                                                                                                                                                              |
| COMPRESSOR REQ2 [Off/On]           | Indicates condition of A/C compressor request.                                                                                                                                                                                                                                                            |
| IGNITION SW [Off/On]               | Indicates condition of ignition switch.                                                                                                                                                                                                                                                                   |
| VEHICLE SPEED (METER) [mph/km/h]   | Indicates vehicle speed.                                                                                                                                                                                                                                                                                  |
| STARTER OPERATION COUNT            | Displays the number of times the starter motor is turned ON.                                                                                                                                                                                                                                              |
| H/P F/PUMP OPERATN COUNT           | Displays the number of times the high pressure fuel pump is turned ON.                                                                                                                                                                                                                                    |
| BAT DISCHARGE COUNT<br>[—]         | Monitor the cumulative discharge value of the battery.  NOTE:  When 65,000 or more is counted, replace the battery.                                                                                                                                                                                       |
| P LAMP CIRC MALFUNCTN<br>[0 – 1]   | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the parking lamp circuit.  NOTE:  When the number of parking lamp circuit retries count is 20, this item counts 1.                                                                                            |
| NMB P LAMP CIRC RETRY<br>[0 – 20]  | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the parking lamp circuit.  NOTE:  When the number of short circuits in the parking lamp circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.                                   |
| NMB P LAMP CIRC SHORT<br>[0 – 5]   | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the parking lamp circuit.                                                                                                                                                                                          |
| DTRL LH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the daytime running light (left) circuit.  NOTE:  When the number of daytime running light (left) circuit retries count is 20, this item counts 1.                                                            |
| NMB DTRL LH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the daytime running light (left) circuit.  NOTE:  When the number of short circuits in the daytime running light (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.   |
| NMB DTRL LH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the daytime running light (left) circuit.                                                                                                                                                                          |
| DTRL RH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the daytime running light (right) circuit.  NOTE:  When the number of daytime running light (right) circuit retries count is 20, this item counts 1.                                                          |
| NMB DTRL RH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the daytime running light (right) circuit.  NOTE:  When the number of short circuits in the daytime running light (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1. |
| NMB DTRL RH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the daytime running light (right) circuit.                                                                                                                                                                         |

| Monitor Item [Unit]                   | Description                                                                                                                                                                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F FOG LH CIRC MALFUNCTN<br>[0 – 1]    | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the front fog lamp (left) circuit.  NOTE:  When the number of front fog lamp (left) circuit retries count is 20, this item counts 1.                                                            |
| NMB F FOG LH CIRC RETRY<br>[0 – 20]   | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the front fog lamp (left) circuit.  NOTE:  When the number of short circuits in the front fog lamp (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.   |
| NMB F FOG LH CIRC SHORT<br>[0 – 5]    | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the front fog lamp (left) circuit.                                                                                                                                                                   |
| F FOG RH CIRC MALFUNCTN<br>[0 – 1]    | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the front fog lamp (right) circuit.  NOTE:  When the number of front fog lamp (right) circuit retries count is 20, this item counts 1.                                                          |
| NMB F FOG RH CIRC RETRY<br>[0 – 20]   | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the front fog lamp (right) circuit.  NOTE:  When the number of short circuits in the front fog lamp (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1. |
| NMB F FOG RH CIRC SHORT<br>[0 – 5]    | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the front fog lamp (right) circuit.                                                                                                                                                                  |
| HL (HI) LH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the headlamp (HI) (left) circuit. <b>NOTE:</b> When the number of headlamp (HI) (left) circuit retries count is 20, this item counts 1.                                                         |
| NMB HL (HI) LH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the headlamp (HI) (left) circuit.  NOTE:  When the number of short circuits in the headlamp (HI) (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.     |
| NMB HL (HI) LH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the headlamp (HI) (left) circuit.                                                                                                                                                                    |
| HL (HI) RH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the headlamp (HI) (right) circuit. <b>NOTE:</b> When the number of headlamp (HI) (right) circuit retries count is 20, this item counts 1.                                                       |
| NMB HL (HI) RH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the headlamp (HI) (right) circuit.  NOTE:  When the number of short circuits in the headlamp (HI) (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.   |
| NMB HL (HI) RH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the headlamp (HI) (right) circuit.                                                                                                                                                                   |
| HL (LO) LH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the headlamp (LO) (left) circuit. <b>NOTE:</b> When the number of headlamp (LO) (left) circuit retries count is 20, this item counts 1.                                                         |

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### [HALOGEN HEADLAMP]

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| Monitor Item [Unit]                   | Description                                                                                                                                                                                                                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NMB HL (LO) LH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the headlamp (LO) (left) circuit.  NOTE:  When the number of short circuits in the headlamp (LO) (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.   |
| NMB HL (LO) LH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the headlamp (LO) (left) circuit.                                                                                                                                                                  |
| HL (LO) RH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the headlamp (LO) (right) circuit. <b>NOTE:</b> When the number of headlamp (LO) (right) circuit retries count is 20, this item counts 1.                                                     |
| NMB HL (LO) RH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the headlamp (LO) (right) circuit.  NOTE:  When the number of short circuits in the headlamp (LO) (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1. |
| NMB HL (LO) RH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the headlamp (LO) (right) circuit.                                                                                                                                                                 |
| T LAMP LH CIRC MALFUNCTN<br>[0 – 1]   | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the tail lamp (left) circuit.  NOTE:  When the number of tail lamp (left) circuit retries count is 20, this item counts 1.                                                                    |
| NMB T LAMP LH CIRC RETRY<br>[0 – 20]  | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the tail lamp (left) circuit.  NOTE:  When the number of short circuits in the tail lamp (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.           |
| NMB T LAMP LH CIRC SHORT<br>[0 – 5]   | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the tail lamp (left) circuit.                                                                                                                                                                      |
| T LAMP RH CIRC MALFUNCTN<br>[0 – 1]   | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the tail lamp (right) circuit.  NOTE:  When the number of tail lamp (right) circuit retries count is 20, this item counts 1.                                                                  |
| NMB T LAMP RH CIRC RETRY<br>[0 – 20]  | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the tail lamp (right) circuit.  NOTE:  When the number of short circuits in the tail lamp (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.         |
| NMB T LAMP RH CIRC SHORT<br>[0 – 5]   | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the tail lamp (right) circuit.                                                                                                                                                                     |
| BATTERY STATUS<br>[OK/NG]             | Monitor the battery status from the battery output.                                                                                                                                                                                                                                       |
| BAT DISCHARGE COUNT [0-100]           | Indicates condition of battery discharge.                                                                                                                                                                                                                                                 |
| BATTERY STATUS [NG/OK]                | Indicates battery status.                                                                                                                                                                                                                                                                 |

### **ACTIVE TEST**

| Test item   | Description                                                      |
|-------------|------------------------------------------------------------------|
| HORN        | This test is able to check horn operation [Off/On].              |
| FRONT WIPER | This test is able to check wiper motor operation [Off/Low/High]. |

### < SYSTEM DESCRIPTION >

### [HALOGEN HEADLAMP]

| Test item            | Description                                                          |
|----------------------|----------------------------------------------------------------------|
| COMPRESSOR           | This test is able to check A/C compressor operation [Off/On].        |
| COOLING FAN (DUAL)   | This test is able to check cooling fan operation [Off/LO/HI].        |
| HEADLAMP (HI)        | This test is able to check headlamp high beam operation [Off/3/5].   |
| HEADLAMP (LO)        | This test is able to check headlamp low beam operation [Off/3/5].    |
| FRONT FOG LAMP       | This test is able to check front fog lamp operation [Off/3/5].       |
| DAYTIME RUNNING LAMP | This test is able to check daytime running lamp operation [Off/3/5]. |
| PARKING LAMP         | This test is able to check parking lamp operation [Off/3/5].         |
| TAIL LAMP            | This test is able to check tail lamp operation [Off/3/5].            |

### CAN DIAG SUPPORT MNTR

Refer to LAN-17, "CAN Diagnostic Support Monitor".

### **WORK SUPPORT**

| Work item              | Description                                                    |
|------------------------|----------------------------------------------------------------|
| CML B/DCHRG CRNT CLEAR | In this mode, cumulative battery discharge current is cleared. |

### [HALOGEN HEADLAMP]

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# **ECU DIAGNOSIS INFORMATION**

# BCM, IPDM E/R

# List of ECU Reference

| ECU                                    | Reference                                | <u>.</u>      |  |  |  |
|----------------------------------------|------------------------------------------|---------------|--|--|--|
|                                        | BCS-29, "Reference Value"                |               |  |  |  |
| DCM (with Intelligent (Cov. overtern)  | BCS-47, "Fail Safe"                      |               |  |  |  |
| BCM (with Intelligent Key system)      | BCS-47, "DTC Inspection Priority Chart"  |               |  |  |  |
|                                        | BCS-48, "DTC Index"                      |               |  |  |  |
|                                        | BCS-97, "Reference Value"                |               |  |  |  |
| DOM (without latelline at Vous system) | BCS-108, "Fail Safe"                     |               |  |  |  |
| BCM (without Intelligent Key system)   | BCS-109, "DTC Inspection Priority Chart" | <del></del> - |  |  |  |
|                                        | BCS-109, "DTC Index"                     |               |  |  |  |
|                                        | PCS-17, "Reference Value".               |               |  |  |  |
| IPDM E/R                               | PCS-25, "Fail-safe"                      |               |  |  |  |
|                                        | PCS-26, "DTC Index"                      |               |  |  |  |

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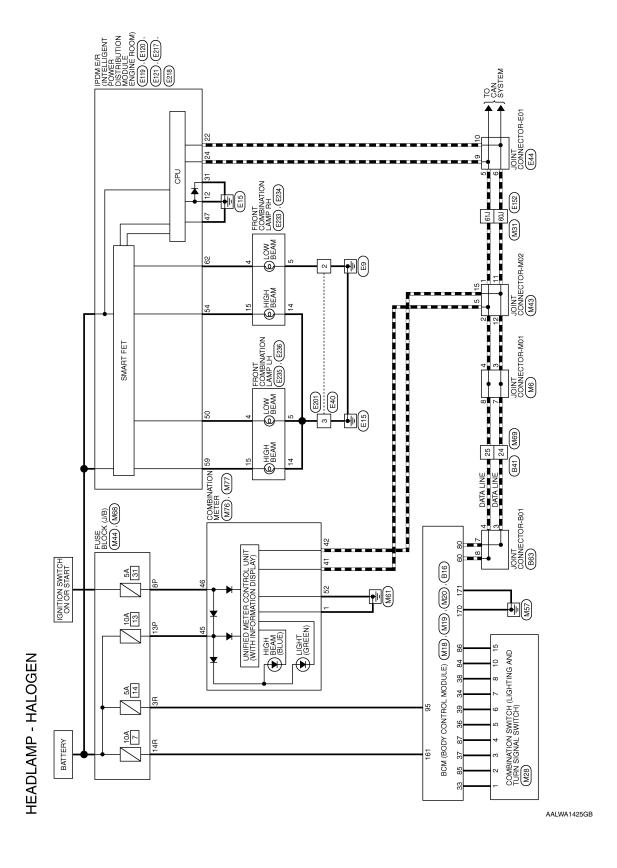
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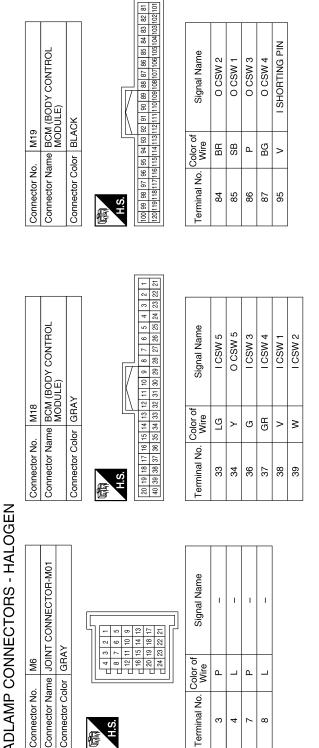
# WIRING DIAGRAM

### **HEADLAMP**

Wiring Diagram



| INECTORS - HALOGEN |  |
|--------------------|--|
| 000                |  |
| HEADLAMF           |  |



| Signal Name       | _  | _ | - | _ | _ | _  | -  |
|-------------------|----|---|---|---|---|----|----|
| Color of<br>Wire  | BG | ŋ | > | > | ^ | BR | Ь  |
| Terminal No. Wire | 4  | 9 | 9 | 2 | 8 | 10 | 15 |
|                   |    |   |   |   |   |    |    |

|               | COMBINATION SWITCH<br>(LIGHTING AND TURN<br>SIGNAL SWITCH) | TE                    | 8 7 6 5 4 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Signal Name      | ı  | I  | ı  |
|---------------|------------------------------------------------------------|-----------------------|---------------------------------------------------|------------------|----|----|----|
| M28           |                                                            | or WHI                | 8 7 9 1 15 1 9                                    | Color of<br>Wire | LG | SB | GB |
| Connector No. | Connector Name                                             | Connector Color WHITE | 用.S.                                              | Terminal No.     | -  | 2  | 8  |

|               | ıme                                        |                 | 힏               |                                    | 1-1  | Col                |           | 3      | 9      |
|---------------|--------------------------------------------|-----------------|-----------------|------------------------------------|------|--------------------|-----------|--------|--------|
| Connector No. | Connector Name                             |                 | Connector Color |                                    | H.S. | Terminal No.   Col | -         | 2      | 3      |
|               |                                            |                 |                 |                                    |      |                    |           |        |        |
|               | Connector Name   BCM (BODY CONTROL MODULE) | BROWN           |                 | 167166165164   1767217170169168    |      | Signal Name        | I PWR ECU | I GND1 | I GND2 |
| . M20         | me BCN<br>MO                               |                 |                 | 167 166 165 164<br>176 175 174 173 |      | Color of<br>Wire   | >         | В      | В      |
| Connector No. | Connector Na                               | Connector Color |                 | H.S.                               |      | Terminal No. Wire  | 161       | 170    | 171    |

| Signal Name      | I PWR ECU | I GND1 | I GND2 |  |
|------------------|-----------|--------|--------|--|
| Color of<br>Wire | >         | В      | В      |  |
| Terminal No.     | 161       | 170    | 171    |  |

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**EXL-31** Revision: September 2015 2016 Rogue NAM В

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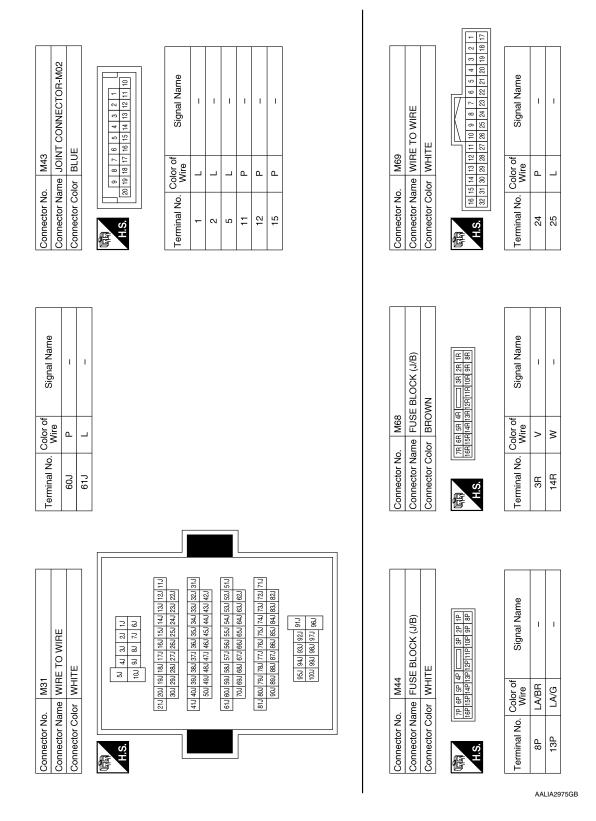
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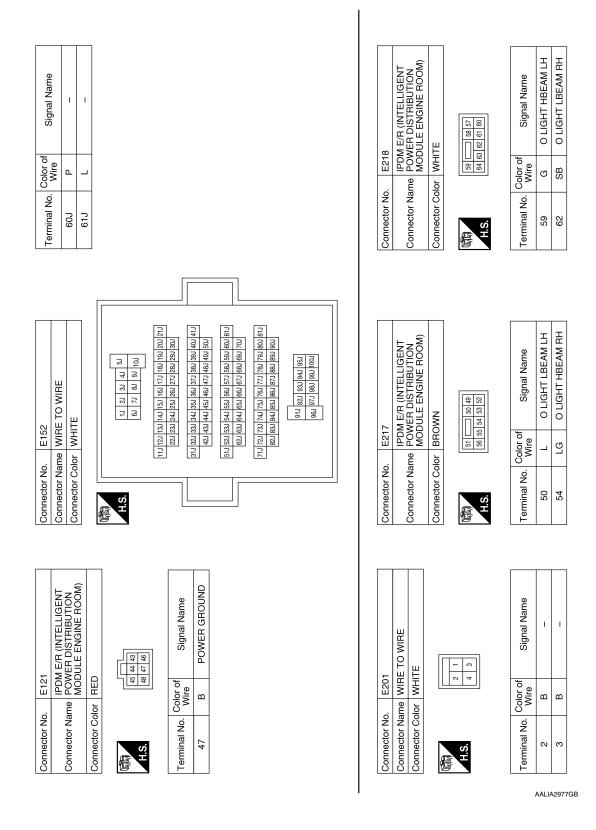
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|               | RE TO WIRE                                             | - 6<br>2 4                               | Signal Name      | 1     | 1     |      |       |    | E120 PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) | 4               | 20   28   27   28   28   24   23   22   21   20   19                                                  | Signal Name      | CAN-L         | CAN-H | 2ND SIGNAL GROUND |    | A<br>B |
|---------------|--------------------------------------------------------|------------------------------------------|------------------|-------|-------|------|-------|----|------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------|------------------|---------------|-------|-------------------|----|--------|
| o. E40        | ame WIF                                                | - m                                      | Color of<br>Wire | GR    | В     |      |       |    |                                                                  | _               | 29 28 27<br>42 41 40 39                                                                               | Color of<br>Wire | ۵             | _     | В                 |    | D      |
| Connector No. | Connector Name WIRE TO WIRE Connector Color WHITE      | 是<br>H.S.                                | Terminal No.     | 2     | ო     |      |       |    | Connector No.                                                    | Connector Color | S.H.                                                                                                  | Terminal No.     | 22            | 24    | 31                |    | Е      |
|               |                                                        |                                          |                  |       |       |      |       |    |                                                                  |                 |                                                                                                       |                  |               |       |                   |    | F      |
|               | Connector Name COMBINATION METER Connector Color WHITE | 14 45 46<br>100 51 52                    | Signal Name      | CAN-H | CAN-L | BAT  | NSI   | G1 | E119 PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |                 | 14 13 12 11 10                                                                                        | Signal Name      | SIGNAL GROUND |       |                   |    | G      |
| M77           | or WHITE                                               | 41 42 43 44 45 47 48 49 50 51            | Color of<br>Wire | _     | ۵     | LA/G | LA/BR | В  |                                                                  | _               | 9 8 7 6 5 5 18 17 16 15 14 13 12                                                                      | Color of<br>Wire | В             | _     |                   |    | ı      |
| Connector No. | Connector Name COMBI<br>Connector Color WHITE          | 是<br>H.S.                                | Terminal No.     | 41    | 42    | 45   | 46    | 52 | Connector No.                                                    | Connector Color | H.S.                                                                                                  | Terminal No.     | 12            |       |                   |    | J      |
|               |                                                        | 39 40<br>39 40                           |                  |       | 1     |      |       |    |                                                                  |                 |                                                                                                       |                  |               |       |                   |    | K      |
|               | Connector Name COMBINATION METER Connector Color WHITE | 9 10 11 12 13 14 15 16 17 18 19          | Signal Name      | GND   |       |      |       |    | E44<br>JOINT CONNECTOR-E01<br>WHITE                              | <u></u>         | 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                               | Signal Name      | ı             | 1     | I                 | 1  | EXL    |
| M76           | r WHITE                                                | 7 8 8 27 7 28 8 8                        | Color of<br>Wire | В     |       |      |       |    | E44 De JOINT (                                                   | L               | 20 19 27 33 28 27 33 28 27 33 28 27 33 28 27 33 28 27 33 28 27 33 32 33 33 33 33 33 33 33 33 33 33 33 | Color of<br>Wire |               | ۵     |                   | ۵  | b. I   |
| Connector No. | Connector Name COMBI                                   | H.S.<br>1 2 3 4 5 6<br>21 22 23 24 25 26 | Terminal No.     | -     |       |      |       |    | Connector No. Connector Name Connector Color                     |                 | S. Y.                                                                                                 | Terminal No.     | 2             | 9     | 6                 | 10 | N<br>O |



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| _             |                                          |                       |                                                 |                    |    |      |
|---------------|------------------------------------------|-----------------------|-------------------------------------------------|--------------------|----|------|
| E235          | Connector Name FRONT COMBINATION LAMP LH | LACK                  | 4 r v 8 v 8 v 8 v 8 v 8 v 8 v 8 v 8 v 8 v       | of Signal Name     | ı  | ı    |
| ΞÜ.           | me FI                                    | lor                   |                                                 | Color<br>Wire      | ٦  | В    |
| Connector No. | Connector Na                             | Connector Color BLACK | H.S.                                            | Terminal No. Wire  | 4  | 2    |
|               | NOI                                      |                       |                                                 |                    |    |      |
| E234          | Connector Name FRONT COMBINATION LAMP RH | GRAY                  | 13 11 12 15 15 15 15 15 15 15 15 15 15 15 15 15 | lor of Signal Name | В  | LG – |
| Connector No. | Connector Name                           | Connector Color GRAY  | H.S.                                            | Terminal No. Wire  | 14 | 15   |
|               |                                          |                       |                                                 |                    |    |      |
| E233          | Connector Name FRONT COMBINATION LAMP RH | ACK                   | 4 t 7 8 8 9 8 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9     | of Signal Name     | ı  | ı    |
|               | me FF                                    | lor BL                |                                                 | Color c<br>Wire    | SB | В    |
| Connector No. | Connector Na                             | Connector Color BLACK | (S) T                                           | Terminal No. Wire  | 4  | 5    |

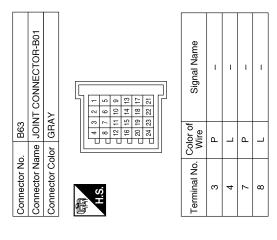
| Connector Name   FRONT COMBINATION   LAMP LH | 47              | 10 11 11 11 11 11 11 11 11 11 11 11 11 1 | Signal Name      | _  | ı  |
|----------------------------------------------|-----------------|------------------------------------------|------------------|----|----|
| me FRC<br>LAN                                | lor GRAY        |                                          | Color of<br>Wire | В  | g  |
| Connector Na                                 | Connector Color | H.S.                                     | Terminal No.     | 14 | 15 |
|                                              |                 |                                          |                  |    |    |

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E236

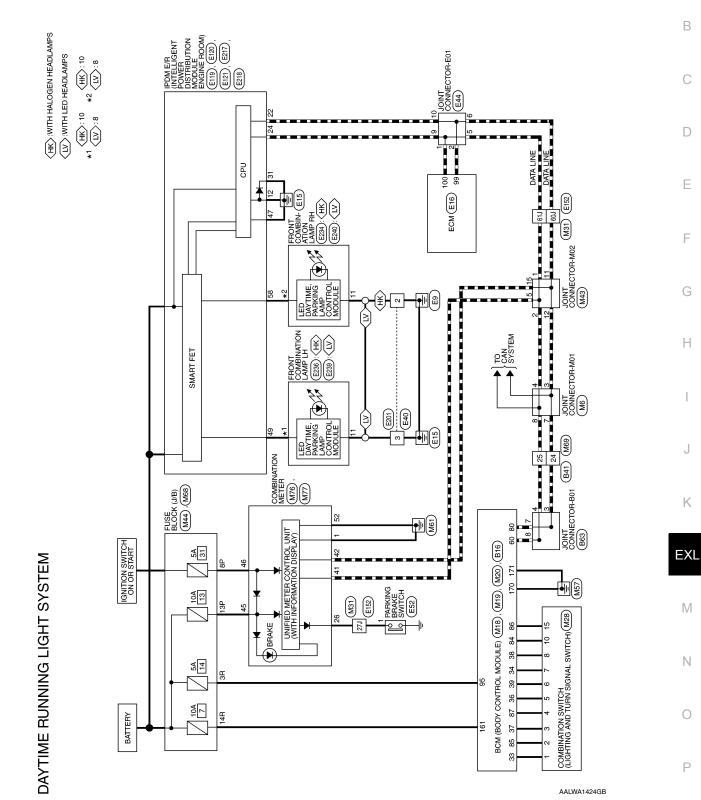
Connector No.



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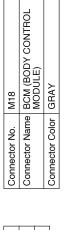
# DAYTIME RUNNING LIGHT SYSTEM

Wiring Diagram



# DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

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



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

Connector Name BCM (BODY CONTROL MODULE) BLACK

Connector Color

M19

Connector No.



| 24 23 22 21 | Signal Name      |  |
|-------------|------------------|--|
|             | Color of<br>Wire |  |
|             | S                |  |

|          |       |       |       |       | Signal N         | ı | 1 | 1 |
|----------|-------|-------|-------|-------|------------------|---|---|---|
| 0        | 13    | 17    | 21    | l [ ] | Sigr             |   |   |   |
| 12 11 10 | 14    | 18    | 22    |       | 0,               |   |   |   |
| F        | 16 15 | 20 19 | 24 23 |       |                  |   |   |   |
| 12       | 16    | 20    | 24    |       |                  |   |   |   |
|          |       |       |       |       | Color of<br>Wire | Ь | ٦ | Ы |
|          |       |       |       |       | Terminal No.     | 3 | 4 | 7 |

| Signal Name      | I CSM 5 | O CSW 5  | I CSM 3 | I CSW 4 | I CSW 1 | I CSW 2 |  |
|------------------|---------|----------|---------|---------|---------|---------|--|
| Color of<br>Wire | ГG      | <b>\</b> | G       | GR      | ^       | Μ       |  |
| Terminal No.     | 33      | 34       | 98      | 22      | 38      | 68      |  |

| 34 Y O CSW 5 |
|--------------|
|--------------|

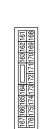
| 3 | 39 |  |
|---|----|--|
|   |    |  |
|   |    |  |
|   |    |  |

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

COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH)

Connector Name Connector Color

Connector No.



| ιö |
|----|
| S  |

| Signal Name                | ı | 1 | 1 | I | 1  | 1  |
|----------------------------|---|---|---|---|----|----|
| Color of<br>Wire           | ŋ | W | > | > | BR | Ь  |
| Terminal No. Color of Wire | 5 | 9 | 7 | 8 | 10 | 15 |
|                            |   |   | - |   |    |    |

|  | 5 4 3 2 1 | 16 15 14 13 12 11 10 9 | Signal Name      |   |
|--|-----------|------------------------|------------------|---|
|  | 8 7 6     | 16 15 14               | Color of<br>Wire | - |
|  |           |                        | al No.           |   |

| Signal Name       | ı  | ı  | I  | ı  |
|-------------------|----|----|----|----|
| Color of<br>Wire  | LG | SB | GR | BG |
| Terminal No. Wire | 1  | 2  | 3  | 4  |

| Signal Name      | I PWR ECU | I GND1 | I GND2 |  |
|------------------|-----------|--------|--------|--|
| Color of<br>Wire | M         | В      | В      |  |
| Terminal No.     | 161       | 170    | 171    |  |

AALIA2953GB

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|        | Connector No. M31 Connector Name WIRE TO WIRE Connector Color WHITE | Vo. M31<br>Vame WIRE T                           | E TO WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Connector No. Connector Name Connector Color |                            | M43<br>JOINT CONNECTOR-M02<br>BLUE                        | Connector No. Connector Color                | lo. M44<br>lame FUSE E      | Connector No. M44  Connector Name FUSE BLOCK (J/B)  Connector Color WHITE |                                  |
|--------|---------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------|-----------------------------------------------------------|----------------------------------------------|-----------------------------|---------------------------------------------------------------------------|----------------------------------|
|        | S:H                                                                 | 5.0<br>100<br>21.1 200 190 181                   | 54 41 34 24 14<br>100 50 84 74 60<br>213/200 189/180 1773 186/183/144/133/123/114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 所<br>(S.H.S.                                 | 20 19 18 1                 | 7 6 5 4 3 2 1<br>17 16 15 14 13 12 11 10                  | H.S.                                         | 7P 6P 5P 16P 15P 14P        | 7P   6P   5P   4P                                                         |                                  |
|        |                                                                     | 30J 29J<br>41J 40J 39J<br>50J 49J                | 300, 280, 280, 270, 280, 283, 244, 283, 220, 241, 400, 380, 380, 377, 380, 383, 344, 383, 320, 310, 500, 493, 480, 477, 480, 483, 444, 483, 424, 483, 482, 482, 482, 482, 482, 482, 482, 482                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Terminal No.                                 | ్రి                        | Signa                                                     | Terminal No.                                 |                             | Signal Name                                                               |                                  |
|        |                                                                     | 61J 60U 59J<br>70J 69J<br>81J 80J 79J<br>90J 89J | 611   602   582   573   583   583   583   583   513   703   682   673   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683   683 | 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2      |                            | 1 1 1 1 1                                                 | 13P                                          | LA/G                        | 1                                                                         |                                  |
|        |                                                                     | 95                                               | 953, 944, 953, 952, 914<br>100, 993, 984, 977, 964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |                            |                                                           |                                              |                             |                                                                           |                                  |
|        | Terminal No. 27J 60J 61J                                            | Color of Wire G                                  | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7                                            |                            |                                                           |                                              |                             |                                                                           |                                  |
|        | Connector No. Connector Name                                        | lo. M68<br>lame FUSE Bl                          | Connector No. M68 Connector Name FUSE BLOCK (J/B) Connector Color BROWN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Connector No. Connector Name Connector Color |                            | M69 WIRE TO WIRE                                          | Connector No. Connector Name Connector Color |                             | M76<br>COMBINATION METER<br>WHITE                                         |                                  |
|        | 更<br>H.S.                                                           | 7R 6R 5R<br>16R 15R 14R                          | 78   68   58   48     38   28   18   18   18   18   18   18   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | H.S.                                         | 15 14 13 12<br>31 30 29 28 | 11 10 9 8 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | H.S. 21                                      | 2 3 4 5 6<br>22 23 24 25 26 | 7 8 9 10 11 12 13 14 15 27 28 29 30 31 32 33 34 35                        | 16 17 18 19 20<br>36 37 38 39 40 |
| AALIA2 | Terminal No.                                                        | ც>                                               | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | S                                            | Color of<br>Wire           | Signal Name                                               | al No.                                       | ਲੁ≤                         | Signal Name                                                               |                                  |
| 954GB  | 3H<br>14R                                                           | > 3                                              | 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 25                                           | л<br>                      | 1 1                                                       | 7 5                                          | m U                         | GND<br>PBK SW                                                             |                                  |
|        |                                                                     |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |                            |                                                           |                                              |                             |                                                                           |                                  |

| Connector No. E40 Connector Name WIRE TO WIRE Connector Color WHITE | H.S. 8 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | al No. Color of Signa Wire    | n       |          |           |       | Connector No. E119  | PDM E/R (INTELLIGENT<br>Connector Name POWER DISTRIBUTION<br>MODULE ENGINE ROOM) | Connector Color GRAY | (5) 8 7 6 ( 5) 4 3 H.S.                                                                       | Terminal No. Color of Signal Name | SIC |     |   |   |   |     |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|----------|-----------|-------|---------------------|----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------|-----------------------------------|-----|-----|---|---|---|-----|
| Connector No. E16 Connector Name ECM Connector Color BLACK          | (4.5. 99   100   105   109   113   112   125   126   129   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   1 | Terminal No. Wire Signal Name | L       |          |           |       | Connector No.   E52 | Connector Name PARKING BRAKE SWITCH Connector Color BLACK                        |                      | S.H.                                                                                          | Color of Signal Name              |     |     |   |   |   |     |
| me COMBINATION METER                                                | 41 42 43 44 45 46 47 48 49 50 51 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Color of Si Wire              | P CAN-H | LA/G BAT | LA/BR IGN | В (31 | ). [E44             | ume JOINT CONNECTOR-E01                                                          |                      | 4 3 2 1<br>8 7 6 5<br>16 15 14 13<br>20 19 18 17<br>24 23 22 21<br>28 27 28 25<br>29 27 28 25 | Color of Signal Name              |     |     | - | Г |   | - 4 |
| Connector No. Connector Name Connector Color                        | 是<br>H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No.                           | 41      | 45       |           | 52    | Connector No.       | Connector Name<br>Connector Color                                                |                      | S.<br>T                                                                                       | O oN legitude                     |     | - 8 | 2 | 9 | 6 | 10  |

| E201 WHRE TO WIRE WHITE  I of Signal Name  B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| I LIII 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |
| Connector No. Connector Color Terminal No. WW. 3 E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| POWER GROUND  FOR Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |
| <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |
| Connector Name Connector Color Terminal No. Color 60J 61J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| PDM F   F120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| 0 - E120   PDM E     PDM E |   |
| IPDM E/R (INTE Connector Name   IPDM E/R (INTE Connector Name   MODULE ENGINE   MODULE     |   |
| AALIA2956GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3 |

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| Connector No.          | ). E217          |                                                       | Connector No.         | ). E218          | 8                                                     | Cor | Connector No.        | E234             |                                                 |
|------------------------|------------------|-------------------------------------------------------|-----------------------|------------------|-------------------------------------------------------|-----|----------------------|------------------|-------------------------------------------------|
| Connector Na           | Ime POV<br>MOE   | Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) | Connector Na          | IPD<br>MO        | Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) | S   | mector Nan           | ne LAM<br>HEA    | Connector Name LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Color   BROW | olor BRC         | NWC                                                   | Connector Color WHITE | olor WH          | IITE                                                  | S   | Connector Color GRAY | or GRA           | γ.                                              |
| 赋利<br>H.S.             | 88               | 51                                                    | ₽<br>H.S.             | 64 69            | SS   52   61   60                                     |     | H.S.                 |                  | 1   1   1   1   1   1   1   1   1   1           |
| Terminal No. Wire      | Color of<br>Wire | Signal Name                                           | Terminal No. Wire     | Color of<br>Wire | Signal Name                                           | Ter | Terminal No. Wire    | Solor of<br>Wire | Signal Name                                     |
| 49                     | ш                | O LIGHT DTRL LH                                       | 28                    | Œ                | O LIGHT DTRL RH                                       |     | 10                   | œ                | 1                                               |

| 40            | Connector Name LAMP RH (WITH LED HEADLAMPS)        | ACK                   | 4 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9                                   | Signal Name       | 1  | 1  |
|---------------|----------------------------------------------------|-----------------------|---------------------------------------------------------------------------|-------------------|----|----|
| E240          | HE 프                                               | or BL                 |                                                                           | Color of<br>Wire  | æ  | В  |
| Connector No. | Connector Naı                                      | Connector Color BLACK | H.S.                                                                      | Terminal No. Wire | 8  | 1  |
|               |                                                    |                       |                                                                           |                   |    |    |
| 39            | Connector Name LAMP LH (WITH LED HEADLAMPS)        | 4CK                   | 8 8 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                                   | Signal Name       | ı  | ı  |
| E239          | e<br>EAH                                           | or BL/                |                                                                           | Solor of<br>Wire  | ھ  | В  |
| Connector No. | Connector Nar                                      | Connector Color BLACK | A.S.                                                                      | Terminal No. Wire | 8  | Ξ  |
|               |                                                    |                       |                                                                           |                   | •  | •  |
| 36            | ONT COMBINATION<br>MP LH (WITH HALOGEN<br>ADLAMPS) | AY                    | (10)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1 | Signal Name       | 1  | 1  |
| E236          | m<br>FEAT                                          | or GR                 |                                                                           | Color of<br>Wire  | Ж  | GR |
| Connector No. | Connector Name LAMP LH (WITH HEADLAMPS)            | Connector Color GRAY  | 南<br>H.S.                                                                 | Terminal No. Wire | 10 | 11 |

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| Connector No. B63 Connector Name JOINT CONNECTOR-B01 Connector Color GRAY | 4 3 2 1                                                                                            | Terminal No. Color of Wire Signal Name | - П   | -     | 1 |   |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------|-------|-------|---|---|
| Connector No. Connector Nam Connector Colo                                | (南) 1 1 1 2 13 14 15 16                                                                            |                                        | е     | 4     | 7 | 8 |
| Connector No. B41 Connector Name WIRE TO WIRE Connector Color WHITE       | 1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   16   16   16   16   16   16 | Color of Signal Name Wire              | ۱     | -     |   |   |
| Connector Nam Connector Colo                                              | H.S.                                                                                               | Terminal No. Wire                      | 24    | 25    |   |   |
| B16 BCM (BODY CONTROL MODULE) GREEN                                       | 55   54   73   72   71   70   69   68   67   66   65   64   63   62   61                           | of Signal Name                         | CAN-H | CAN-L |   |   |
| o. B1<br>ame B6<br>M olor G                                               | 55 54 73 72 72 72 72 72 72 72 72 72 72 72 72 72                                                    | Color of<br>Wire                       | _     | ۵     |   |   |

| Signal Name      | CAN-H | CAN-L |  |
|------------------|-------|-------|--|
| Color of<br>Wire | ٦     | ۵     |  |
| erminal No.      | 09    | 80    |  |

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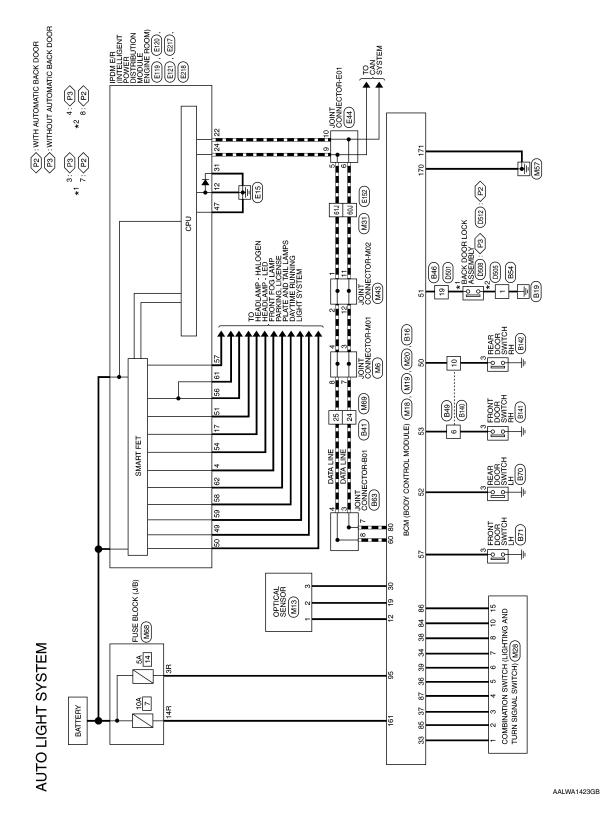
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# **AUTO LIGHT SYSTEM**

Wiring Diagram



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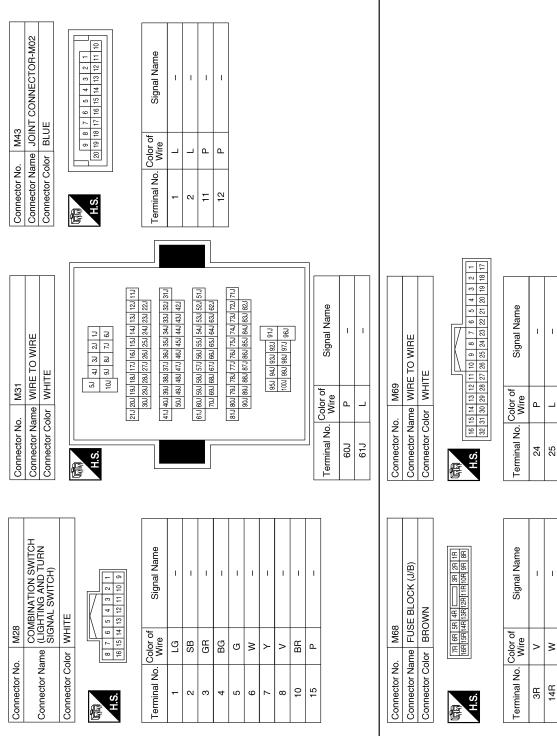
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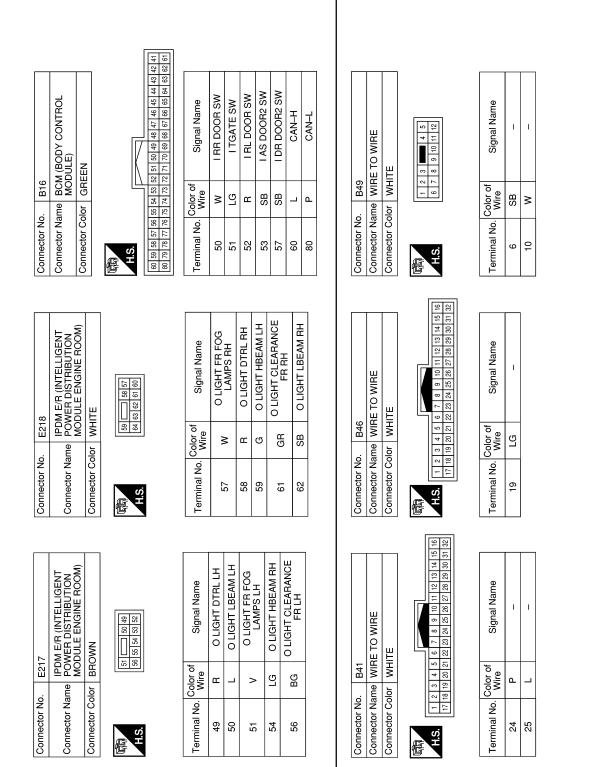
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|                           |               |                                    |                 | 5 4 3 2 1<br>25 24 23 22 21                                                          |                      |                           |                    |                           |         |          |         |         |         |         |              |                                  |       |                 |            |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |         |         |         |         |                |  |
|---------------------------|---------------|------------------------------------|-----------------|--------------------------------------------------------------------------------------|----------------------|---------------------------|--------------------|---------------------------|---------|----------|---------|---------|---------|---------|--------------|----------------------------------|-------|-----------------|------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|---------|---------|---------|---------|----------------|--|
|                           | 8             | BCM (BODY CONTROL MODULE)          | AY              | 20 19 18 17 16 15 14 19 12 11 10 9 8 7 6 6 14 19 19 19 19 19 19 19 19 19 19 19 19 19 | Signal Name          | O PWR AUTOLIGHT<br>SENSOR | I AUTOLIGHT SENSOR | O GND AUTOLIGHT<br>SENSOR | I CSW 5 | O CSW 5  | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |              |                                  |       |                 |            |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |         |         |         |         |                |  |
|                           | . M18         |                                    | lor GRAY        | 20 19 18 17 16<br>40 39 38 37 36                                                     | Color of<br>Wire     | >                         | ГG                 | >                         | LG      | Υ        |         | GR      | >       | >       |              |                                  |       |                 |            |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |         |         |         |         |                |  |
|                           | Connector No. | Connector Name                     | Connector Color | (京)<br>H.S. 40 3                                                                     | Terminal No. Wire    | 12                        | 19                 | 30                        | 33      | 34       | 36      | 37      | 38      | 39      |              |                                  |       |                 |            |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |         |         |         |         |                |  |
|                           |               |                                    | _               |                                                                                      |                      |                           |                    |                           |         |          | •       |         |         |         |              |                                  |       |                 |            |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |         | 1       |         |         |                |  |
|                           |               | OPTICAL SENSOR                     |                 |                                                                                      |                      |                           | Signal Name        | 1                         | 1       | ı        |         |         |         |         |              | BCM (BODY CONTROL                | JULE) | BROWN           | Elecal     | 1761751741731721771170169168 | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | I PWR ECU | I GND1           | I GND2  |         |         |         |                |  |
|                           | M13           |                                    |                 |                                                                                      |                      |                           | Color of<br>Wire   | > !                       | 5 ×     | >        |         |         |         |         | OCM          |                                  | -     | _               | 1671466146 | 17617517                     | Color of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | >         | В                | В       |         |         |         |                |  |
|                           | Connector No. | Connector Name                     |                 | H.S.                                                                                 |                      |                           | Terminal No.       |                           | 27 0    | n        |         |         |         |         | Connector No | Connector Name                   |       | Connector Color |            | H.S.                         | Terminal No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 161       | 170              | 171     |         |         |         |                |  |
| ECTORS                    |               |                                    | 7               |                                                                                      |                      | Г                         |                    |                           |         |          | 7       |         |         |         |              |                                  |       |                 |            |                              | 82 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                  |         |         |         |         |                |  |
| AUTO LIGHT SYSTEM CONNECT |               | Connector Name JOINT CONNECTOR-M01 | _               | 4 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                              | 19 18 17<br>23 22 21 |                           | Signal Name        | 1                         | 1   1   | I        | I       |         |         |         |              | Connector Name BCM (BODY CONTROL | ULE)  | X               |            |                              | 100 99 98 97 96 95 94 98 92 91 90 89 88 87 86 85 84 83 82 81 81 90 91 91 90 92 91 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 98 97 90 90 90 90 90 90 90 90 90 90 90 90 90 |           | Signal Name      | O CSW 2 | O CSW 1 | O CSW 3 | O CSW 4 | I SHORTING PIN |  |
| SYST                      | M6            | me JOIN                            | 5               | 4 8 5 5                                                                              |                      |                           | Wire               | ۵ .                       | ۵ ا     | <u> </u> | -       |         |         |         | M40          | me BCM                           | MOM   | or BLACK        |            |                              | 5 94 93 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Color of<br>Wire | BB      | SB      | ۵       | BG      | >              |  |
| O LIGHT                   | Connector No. | Connector Name JOINT               |                 | 明S.                                                                                  |                      |                           | Terminal No.       | ю ,                       | 4 1     | ` 0      | 0       |         |         |         | Connector No | Connector Nar                    |       | Connector Color | Œ          | H.S.                         | 100 99 98 97 96 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | Terminal No.     | 84      | 85      | 98      | 87      | 95             |  |
| AU                        |               |                                    | _               |                                                                                      |                      | _                         |                    |                           |         |          |         |         |         |         |              | ·                                |       |                 |            | `                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  | •       | AA      | LIA21   | 12G     | В              |  |

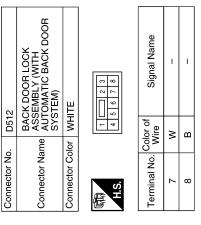


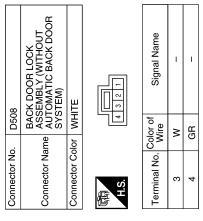
| DON OW SE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | АВ  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Signal Nan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | C   |
| ttor No. E12C Name POW MODE Stor Color GRA al No. Wire P P D Wire P P P D D D D D D D D D D D D D D D D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Е   |
| Connec Co | F   |
| MON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | G   |
| Signal Nam   Sig   | H H |
| No.   E119   No.   E119   No.   E119   No.   E152   E212   | 1   |
| Connector No.  Connector Name  Connector No.  Connector No.  Connector No.  Connector Name  Connector No.  M.S.  H.S.  #13.  #14.  ITILITY  ITILITY | J   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | К   |
| E44  JOINT CONNECTOR-E01  WHITE  4 3 2 11 10 8 4 18 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 11 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 10 18 18 18 | EXL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IVI |
| ctor No ctor N | N   |
| Conne  | 0   |
| I AALIA295                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2GB |



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| Connector No. B70 Connector Name REAR DOOR SWITCH LH Connector Color WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Signal Name        | Connector No. B141 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE  Terminal No. Wire  3 GR  GOINT OF Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | С   |
| B70 REAR DOO WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    | WHITE STOPE STOP STOPE S | D   |
| or No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Color of Wire 3 R  | or No. B14 or Name FRC or Color WHI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Е   |
| Connector No. Connector Name Connector Color H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Termina 3          | Connector No. Connector Color Connector Color Terminal No. 3 Col                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | F   |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | G   |
| Connector No. B63  Connector Name JOINT CONNECTOR-B01  Connector Color GRAY  H.S. Connector Color CRAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Signal Name        | MIRE TO WIRE WHITE  WHITE  12 11 10 9 8 7 6  12 11 10 9 8 7 6  13 11 10 9 8 7 6  14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Н   |
| DEG TO THE TOTAL | Color of Wire      | B140   S140      | I   |
| Connector No. Connector Color Connector Color H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3 3 7 7 8 8        | Connector No. B140 Connector Name WIRE TO WIRE Connector Color WHITE  Terminal No. Wire  6 GR  10 W  70 Signal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | J   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K   |
| IRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Signal Name        | DOR SWITCH LH Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EXL |
| WIRE TO W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | B71 WHITE Or of free SBB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | M   |
| No. B54  Name WIR  Color WHI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | O. Color of Wire B | No. B71 Name FRC Color WHI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N   |
| Connector No. B54 Connector Name WIRE TO WIRE Connector Color WHITE H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Terminal No.       | Connector No. B71 Connector Name FRONT DOOR SWITC Connector Color WHITE  Terminal No. Wire  3 SB -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    | AALIA2116GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Р   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -   |

| TOWN OF       | IO WIRE                                            |                         | Signal Name                | ı  |  |
|---------------|----------------------------------------------------|-------------------------|----------------------------|----|--|
| D505          | or WHITE                                           |                         | Solor of<br>Wire           | В  |  |
| Connector No. | Connector Color WHITE                              | S.H.                    | Terminal No. Wire          | -  |  |
|               |                                                    | 18171                   |                            |    |  |
| T G W         | IO WIRE                                            | 26 25 24 23 22 21 20 19 | Signal Name                | ı  |  |
| D501          | or WIHE                                            |                         | Solor of<br>Wire           | >  |  |
| Connector No. | Connector Name WIRE 10 WIRE  Connector Color WHITE | H.S. (1615)             | Terminal No. Wire          | 19 |  |
|               |                                                    |                         |                            |    |  |
|               | TE                                                 | 2 2 3 4                 | Signal Name                | ı  |  |
| . B142        | me KEA<br>lor WHI                                  |                         | Color of<br>Wire           | >  |  |
| Connector No. | Connector Name   REAR DUC                          | H.S.                    | Terminal No. Color of Wire | ဇ  |  |



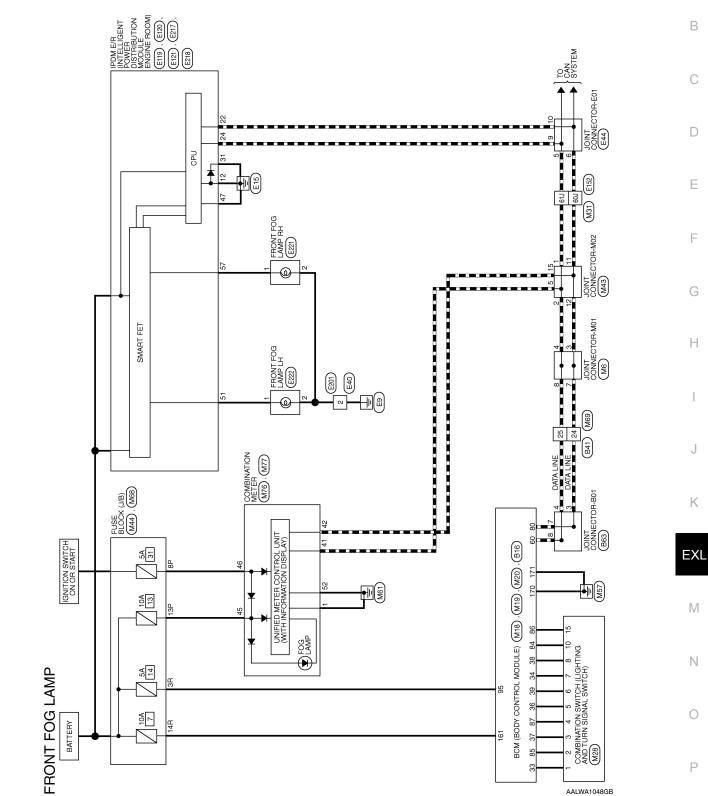


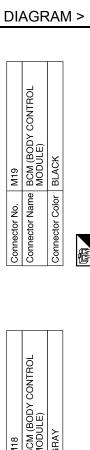
AALIA4250GB

Α

# FRONT FOG LAMP SYSTEM

Wiring Diagram

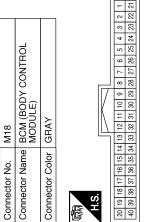




| r     |                                                              |                                                                                 | 1 |                       |
|-------|--------------------------------------------------------------|---------------------------------------------------------------------------------|---|-----------------------|
|       | 28                                                           | 101                                                                             |   |                       |
|       | 82                                                           | 102                                                                             |   |                       |
|       | 83                                                           | 103                                                                             |   |                       |
|       | 8                                                            | 104                                                                             |   |                       |
|       | 82                                                           | 105                                                                             |   | <u>a</u>              |
|       | 88                                                           | 106                                                                             |   | <u>ا</u>              |
|       | 87                                                           | 107                                                                             |   | Ž                     |
|       | 88                                                           | 108                                                                             |   | 2                     |
| - 117 | 88                                                           | 109                                                                             |   | Signal Name           |
| IV.   | 96                                                           | 110                                                                             |   | ٠.                    |
| - 11  | 16                                                           | 111                                                                             |   |                       |
|       | 95                                                           | 112                                                                             |   |                       |
|       | 93                                                           | 113                                                                             |   | ģ                     |
|       | 98                                                           | 114                                                                             |   | <u> </u>              |
|       | 95                                                           | 115                                                                             |   | 8                     |
|       | 96                                                           | 116                                                                             |   | c                     |
|       | 97                                                           | 117                                                                             |   | Z                     |
| - 22  | 86                                                           | 118                                                                             |   | L C                   |
| Ξ.S.  | 66                                                           | 119                                                                             |   | ].                    |
|       | 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 | 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 |   | Terminal No. Color of |
|       |                                                              |                                                                                 |   |                       |

| Signal Name                | O CSW 2 | O CSW 1 | O CSW 3 | O CSW 4 | I SHORTING PIN |
|----------------------------|---------|---------|---------|---------|----------------|
| Color of<br>Wire           | BR      | SB      | Ь       | BG      | ^              |
| Terminal No. Color of Wire | 84      | 85      | 98      | 87      | 92             |

| Signal Name       | ı | 1        | 1 | 1  | -  |
|-------------------|---|----------|---|----|----|
| Color of<br>Wire  | Ν | <b>\</b> | > | BR | Ь  |
| Terminal No. Wire | 9 | 7        | ∞ | 10 | 15 |

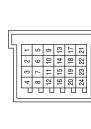


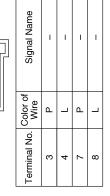
| Signal Name      | I CSW 5 | O CSW 5  | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |
|------------------|---------|----------|---------|---------|---------|---------|
| Color of<br>Wire | LG      | <b>\</b> | G       | GR      | ^       | Μ       |
| Terminal No.     | 33      | 34       | 36      | 37      | 38      | 39      |

| Connector No.         | M28                                                                 |
|-----------------------|---------------------------------------------------------------------|
| Connector Name        | COMBINATION SWITCH Connector Name (LIGHTING AND TURN SIGNAL SWITCH) |
| Connector Color WHITE | WHITE                                                               |
|                       |                                                                     |

| 16 15 14 13 12 11 10 9 | Signal Name      | 1  | -  | _  | 1  | - |
|------------------------|------------------|----|----|----|----|---|
| 16 15 14               | Color of<br>Wire | LG | SB | GR | BG | В |
| S.                     | Terminal No.     | -  | 2  | 3  | 4  | 2 |







| Connector Name BCM (BC MODULE Connector Color BROWN | Connector No. M20 Connector Name BCM (BODY CONTROL MODULE) Connector Color BROWN |
|-----------------------------------------------------|----------------------------------------------------------------------------------|
| 1921                                                | 167 166 165 164 163 162 161<br>176 175 174 173 172 171 170 169 168               |



| Signal Name      | I PWR ECU | I GND1 | I GND2 |
|------------------|-----------|--------|--------|
| Color of<br>Wire | M         | В      | В      |
| Terminal No.     | 161       | 170    | 171    |

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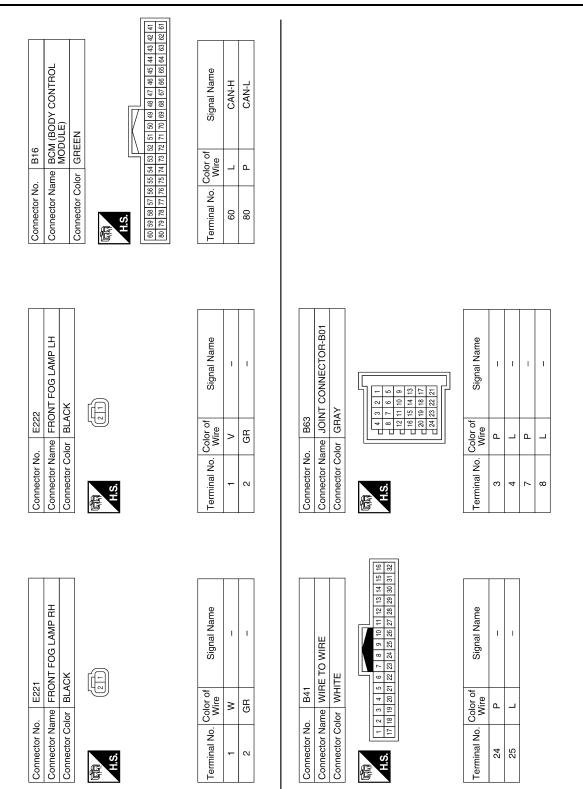
| Connector No.   M43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Connector No.   M69   Connector Name   WIRE TO WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Color of Signal Name Wire P – – L – L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | M68   State   LOSE BLOCK (J/B)   State   BROWN   State   BRO |  |
| Terminal No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Connector No. Connector Color Connector Color Terminal No. Color 3R 3R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| MHTE  WHITE  WHITE  SJ 4J 3J 2J 1J  10J 9J 8J 7J 6SJ 24J 22J 22J  21J 20J 19J 19J 17J 16SJ 18J 14J 12J 11J  22J 20J 19J 19J 17J 16SJ 18J 14J 12J 12J  30J 29J 29J 27J 27S 18J 27J 28J 22J  41J 40J 39J 38J 37J 38S 38J 37J 38J 37J 38J 32J 31J  50J 49J 48J 47J 48J 45J 44J 43J 42J  61J 60J 89J 88J 67J 68J 85J 84J 83J 82J 57J  81J 80J 77J 78J 78J 78J 78J 78J 77J 78J 77J  90J 89J 88J 97J 68J 88J 97J 98J  10M 99J 98J 97J 98J 97J 98J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | M44 FUSE BLOCK (J/B) WHITE  r of Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Connector No.   M31   Connector Name   WIRE T   Connector Color   WHITE   Sulfame   Sulfame | M44   Connector No.   M44   Connector Name   FUSE BLOCK (J/)   Connector Color   WHITE   Terminal No.   Color of   Signal     8P   LA/B   LA/G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |

Revision: September 2015 **EXL-53** 2016 Rogue NAM

AALIA2968GB

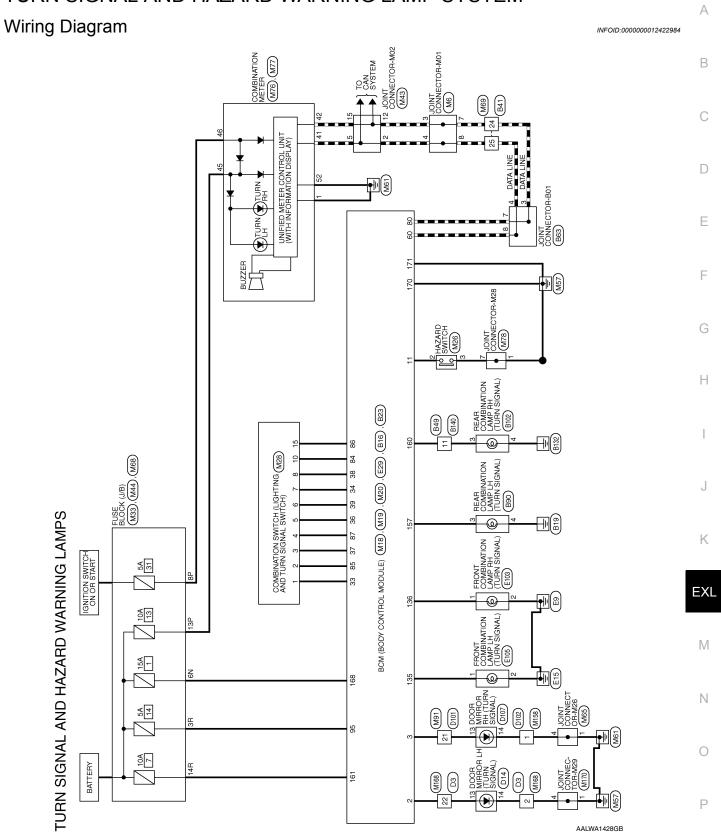
| Connector No.                     |                                                |                                                                               | Connector No.                     |                     |                                                                    | Connector No.   |                            |                                                                    |  |
|-----------------------------------|------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------|---------------------|--------------------------------------------------------------------|-----------------|----------------------------|--------------------------------------------------------------------|--|
| Connector Name<br>Connector Color |                                                | COMBINATION METER WHITE                                                       | Connector Name<br>Connector Color |                     | COMBINATION METER WHITE                                            | Connector Name  |                            | WIRE TO WIRE WHITE                                                 |  |
| H.S.<br>1 2 3 4 5 6               | 6 7 8 9 20 20 20 20 20 20 20 20 20 20 20 20 20 | 10 11 12 13 14 15 16 17 18 19 20<br>9 30 31 32 33 34 35 36 37 38 39 40        | 原列<br>H.S.                        | 41 42 43 49 49      | 43 44 45 46 46 46 46 47 72                                         | 原<br>用.S.       |                            | - 0<br>0 4                                                         |  |
| Terminal No.                      | Color of<br>Wire<br>B                          | Signal Name<br>GND                                                            | Terminal No.                      | Color of<br>Wire    | Signal Name<br>CAN-H                                               | Terminal No.    | Color of Wire GR           | Signal Name                                                        |  |
|                                   |                                                |                                                                               | 42                                | 9/8/G               | CAN-L<br>BAT                                                       |                 |                            |                                                                    |  |
|                                   |                                                |                                                                               | 46                                | LA/BR               | NDI                                                                |                 |                            |                                                                    |  |
|                                   |                                                |                                                                               | 52                                | В                   | Ğ1                                                                 |                 |                            |                                                                    |  |
| Connector No.                     | E44                                            |                                                                               | Connector No.                     | E119                |                                                                    | Connector No.   | lo. E120                   | 0                                                                  |  |
| Connector Name                    |                                                | JOINT CONNECTOR-E01 WHITE                                                     | Connector Name                    |                     | IPDM E/R (INTELLIGENT<br>POWER DISTRIBUTION<br>MODULE ENGINE ROOM) | Connector Name  |                            | IPDM E/R (INTELLIGENT<br>POWER DISTRIBUTION<br>MODULE ENGINE ROOM) |  |
|                                   |                                                |                                                                               | Connector Color                   | lor GRAY            | <u></u>                                                            | Connector Color | olor GRAY                  | 17                                                                 |  |
| H.S.                              | 4 8 2 9 8 8 9                                  | 4 3 2 1 4 8 7 6 5 1 1 10 9 5 1 1 1 10 9 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | S.H.                              | 9 8 7 6 18 17 16 15 | 0 14 13 2 1 10 0                                                   | 语.S.            | 30 29 28 27<br>42 41 40 39 | 28 55 24 23 22 21 20 19<br>38 37 36 55 34 33 22 31                 |  |
| Terminal No.                      | Color of<br>Wire                               | Signal Name                                                                   | Terminal No.                      | Color of<br>Wire    | Signal Name                                                        | Terminal No.    | Color of<br>Wire           | Signal Name                                                        |  |
| r                                 | _                                              | 1                                                                             | 12                                | В                   | SIGNAL GROUND                                                      | 22              | ۵                          | CAN-L                                                              |  |
| 9                                 | Ь                                              | ı                                                                             |                                   |                     |                                                                    | 24              | L                          | CAN-H                                                              |  |
| 6                                 | Г                                              | 1                                                                             |                                   |                     |                                                                    | 31              | В                          | 2ND SIGNAL GROUND                                                  |  |
| 10                                | ۵                                              | ı                                                                             |                                   |                     |                                                                    |                 |                            |                                                                    |  |

| Signal Name        | 1                                         | ı               |                                                                        | E218 POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE  STOOM SIGNAL STOOM  OLIGHT FR FOG LAMPS RH                                          | A<br>B |
|--------------------|-------------------------------------------|-----------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------|
| Terminal No. Wire  |                                           | 61J L           |                                                                        | Connector No. E218 Connector Name POWER CONNECTOR WHITE Connector Color of MHITE  Terminal No. Color of S7 W O                         | D<br>E |
|                    |                                           |                 |                                                                        |                                                                                                                                        | F      |
| I diw OF           | E C WINE                                  |                 | 11   21   31   41   51   51   101   101   51   51   101   101   51   5 | E217 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) BROWN  STORT SIGNAL NAME  TO SIGNAL NAME  TO CLIGHT FR  FOG LAMPS LH | G      |
| Connector No. E152 | Connector Color WHITE                     |                 | (i)                                                                    | nector No.  nector Name nector Color minal No. Color 51                                                                                | I      |
| S                  | 8 8                                       |                 |                                                                        | O O O O O O O O O O O O O O O O O O O                                                                                                  | J<br>K |
| FINECLI            | POWER DISTRIBUTION<br>MODULE ENGINE ROOM) |                 | Signal Name POWER GROUND                                               | WIRE Signal Name                                                                                                                       | EXI    |
|                    |                                           | _               | Vire of A & B B                                                        | or No. E201  or Name WIRE TO WIRE  or Color WHITE  a 1 3 4 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4                                           | M      |
| Connector No.      | Connector Name                            | Connector Color | H.S. Terminal No.                                                      | Connector No.  Connector No.  Terminal No.  Connector No.  A.S.  H.S.                                                                  | 0      |
|                    |                                           |                 |                                                                        |                                                                                                                                        | Р      |



AALIA2131GB

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM



Connector Name | BCM (BODY CONTROL MODULE) BLACK

Connector Color

M19

Connector No.

# AMPS CONNECTORS TIDN CICINDIT

| I URN SIGNAL   | LOKIN SIGINAL AIND HAZAKD WAKINING LAMPS CONNECTOR | G LAMPS CON             | NEC O    |
|----------------|----------------------------------------------------|-------------------------|----------|
| Connector No.  | M6                                                 | Connector No. M18       | M18      |
| Connector Name | Connector Name LOINT CONNECTOR-M01                 | Connector Name BCM (BOD | BCM (BOD |

|         | Connector No.                       | M18                     |
|---------|-------------------------------------|-------------------------|
| TOR-M01 | Connector Name BCM (BODY CC MODULE) | BCM (BODY CC<br>MODULE) |
|         | Connector Color GRAY                | GRAY                    |
|         |                                     |                         |

Connector Color GRAY

|   | Connector No.                            | ŭ    | 엉   | ö  | ž     |    | _        | M18  | ω                   |      |      |      |                                                             |    |    |    |    |    |    |    |
|---|------------------------------------------|------|-----|----|-------|----|----------|------|---------------------|------|------|------|-------------------------------------------------------------|----|----|----|----|----|----|----|
|   | Connector Name BCM (BODY CONTROL MODULE) | ľ    | act | ō  | S     | Ĕ  | -        | MS S | BCM (BOD<br>MODULE) | Œ,   | (E)  | }_   | 8                                                           | Σ  | Ä  | 7  |    |    |    |    |
|   | Connector Color GRAY                     | l u  | e   | o  | ပြ    | 힏  | <u> </u> | ЗR   | 8                   |      |      |      |                                                             |    |    |    |    |    |    |    |
|   | 臣王                                       | H.S. |     |    |       |    |          |      | \                   | I IN | I IV | l 17 |                                                             |    |    |    |    |    |    |    |
|   | 20                                       | 19   | 18  | 17 | 17 16 | 5  | 4        | 13   | 13 12 11 10         | Ξ    |      | 6    | 8                                                           | 7  | 9  | -C | 4  | 8  | 2  | F  |
|   | 40                                       | 33   | 88  | 37 | 36    | 38 | 34       | 33   | 32                  | 31   | 8    | 53   | 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 | 27 | 56 | 25 | 24 | 83 | 22 | 72 |
| _ |                                          | 11   | 11  |    | 11    | 11 | 11       | 11   | 11                  | 11   | 11   | 11   | 11                                                          | 11 | 1  | 11 | 11 | 11 | 11 | 11 |

| 3 2 1 | 7 6 5 | 11 10 9 | 16 15 14 13 | 20 19 18 17 | 24 23 22 21 | Signal Name                  | _ | _ | _ | _ |
|-------|-------|---------|-------------|-------------|-------------|------------------------------|---|---|---|---|
|       | ∞<br> | H 12    | 1 2         | L           | - 54        | Color of<br>Wire             | Ь | ٦ | Ь | ٦ |
| •     | H.S.  |         |             |             |             | Terminal No.   Color of Wire | 8 | 4 | 2 | 8 |

| - |       |                                                                          | 1 |                  |         |         |         |         |              |   |
|---|-------|--------------------------------------------------------------------------|---|------------------|---------|---------|---------|---------|--------------|---|
|   | 8     | 101                                                                      |   |                  |         |         |         |         |              |   |
|   | 82    | 102                                                                      |   |                  |         |         |         |         |              |   |
|   | 83    | 103                                                                      |   |                  |         |         |         |         |              | l |
|   | 8     | 104                                                                      |   |                  |         |         |         |         | 7            | l |
|   | 82    | 105                                                                      |   | Ф                |         |         |         |         | Е            | l |
|   | 86    | 106                                                                      |   | ᇤ                | 12      | Ξ       | 3       | 4       | Ō            | l |
|   | 84    | 107                                                                      |   | Ž                | 38      | %       | 3       | [%      | $\leq$       | l |
|   | 88    | 120 119 118 117 116 115 114 113 112 111 1110 109 108 107 106 105 104 103 |   | Signal Name      | O CSW 2 | O CSW 1 | O CSW 3 | O CSW 4 | SHORTING PIN | l |
|   | 88    | 109                                                                      |   | iĝ               | 0       | 0       | 0       | 0       | 오            |   |
|   | 8     | 110                                                                      |   | 0,               |         |         |         |         | S            | l |
|   | 92 91 | =                                                                        |   |                  |         |         |         |         |              | l |
|   | 92    | 112                                                                      |   |                  |         |         |         |         |              |   |
| Ī | 94    | 113                                                                      |   | Color of<br>Wire |         |         |         |         |              | l |
|   | 94    | 114                                                                      |   | 흔들               | BR      | SB      | Д       | BG      | >            | l |
|   | 32    | 115                                                                      |   | 0                |         |         |         |         |              | l |
|   | 96    | 116                                                                      |   | o.               |         |         |         |         |              |   |
|   | 98 97 | 117                                                                      |   | Z                |         |         |         |         |              | l |
|   | 88    | 118                                                                      |   | na               | 84      | 85      | 98      | 87      | 95           | l |
|   | 66    | 119                                                                      |   | Ē                | ~       | ~       | ~       | ~       | 0,           | l |
|   | 100   | 120                                                                      |   | Terminal No.     |         |         |         |         |              |   |
|   |       |                                                                          | _ |                  |         |         |         |         |              | ı |
|   |       |                                                                          |   |                  |         |         |         |         |              |   |

| Signal Name      | O DI FR LEFT D | O DI FR RIGHT D | I HAZARD SW D | I CSW 5 | O CSW 5  | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |
|------------------|----------------|-----------------|---------------|---------|----------|---------|---------|---------|---------|
| Color of<br>Wire | LA/G           | LA/Y            | <b>\</b>      | LG      | <b>\</b> | ŋ       | GR      | >       | M       |
| Terminal No.     | 2              | 3               | 11            | 33      | 34       | 36      | 37      | 38      | 39      |

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



| Signal Na        | _ | ı  |  |
|------------------|---|----|--|
| Color of<br>Wire | У | GR |  |
| Terminal No.     | 2 | 3  |  |

| Connector No.   | o. M20           | (                                        |
|-----------------|------------------|------------------------------------------|
| Connector Na    | ame BCI          | Connector Name BCM (BODY CONTROL MODULE) |
| Connector Color |                  | BROWN                                    |
| H.S.            | 16716<br>17617   | 176/166/165/164/                         |
| Terminal No.    | Color of<br>Wire | Signal Name                              |
| 161             | >                | I PWR ECU                                |
| 168             | BG               | I PWR FLASHERS                           |
| 170             | В                | I GND1                                   |
| 171             | В                | I GND2                                   |

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| RI | NII               | NC                                 | S L                   | .AMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |      |       | N HEADLAMP] |
|----|-------------------|------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------|-------|-------------|
|    |                   | FUSE BLOCK (J/B)                   | WN                    | 7R   6R   5R   4R     3R   2R   TR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Signal Name                | ı    | ı     |             |
|    | Connector No. M68 | Connector Name FUSE                | Connector Color BROWN | TRI GRI SRI 4RI IGRI ISRI 4RI ISRI 4RI IGRI ISRI 4RI IGRI ISRI 4RI IGRI ISRI 4RI ISRI 4RI IGRI ISRI 4RI ARI ARI ARI ARI ARI ARI ARI ARI ARI A | Terminal No. Color of Wire | 3R V | 14R W |             |
|    |                   | Connector Name JOINT CONNECTOR-M26 | 11                    | 6 5 4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Signal Name                | -    | -     |             |
|    | Connector No. M65 | Connector Name JOII                | Connector Color WHITE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Terminal No. Wire          | 1 B  | 4 B   |             |

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| M43  The JOINT CO  The JOINT C |               | ECTOR-M02      |                | 4 3 2 1   | Signal Name  | 1 | ı | ı  | 1        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|----------------|-----------|--------------|---|---|----|----------|
| Connector No. Connector Nam Connector Colc Cerminal No. C | M43           | le JOINT CONNI | ır BLUE        | 9 2 2 4 5 |              |   |   | ۵  | <u>a</u> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Connector No. | Connector Nam  | Connector Colc |           | Terminal No. | 2 | 5 | 12 | 15       |

| Connector No.         | o. M33           | •                               |
|-----------------------|------------------|---------------------------------|
| Connector Na          | ame FUS          | Connector Name FUSE BLOCK (J/B) |
| Connector Color WHITE | olor WH          | ΠE                              |
| H.S.                  |                  | 3N                              |
| Terminal No.          | Color of<br>Wire | Signal Name                     |
| N9                    | BG               | ı                               |

COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH)

Connector Name

M28

Connector No.

Connector Color WHITE

| Signal Name                | ı  | 1  | ı | ı  | _ | I | I | 1 | _  | ı  |  |
|----------------------------|----|----|---|----|---|---|---|---|----|----|--|
| Color of<br>Wire           | bЛ | SB | В | BG | Э | Μ | λ | ^ | BB | Ь  |  |
| Terminal No. Color of Wire | -  | 2  | 3 | 4  | 2 | 9 | 7 | 8 | 10 | 15 |  |

|               | Connector Name FUSE BLOCK (J/B) | 11                    | 7P   6P   5P   4P   7P   5P   1P   1P   1P   1P   1P   1P   1 | Signal Name       | I     | I    |
|---------------|---------------------------------|-----------------------|---------------------------------------------------------------|-------------------|-------|------|
| . M44         | me FU                           | lor WH                | 7P 6P<br>16P 15P                                              | Color of<br>Wire  | LA/BR | LA/G |
| Connector No. | Connector Na                    | Connector Color WHITE | 原列<br>H.S.                                                    | Terminal No. Wire | 8P    | 13P  |
|               |                                 |                       |                                                               |                   |       |      |

| Signal Name       | ı     | I    |
|-------------------|-------|------|
| Color of<br>Wire  | LA/BR | LA/G |
| Terminal No. Wire | 8P    | 13P  |

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**EXL-59** Revision: September 2015 2016 Rogue NAM

| Connector No. M69  Connector Name WIRE TO WIRE  Connector Color WHITE | r No. M69 r Name WIRE TO W r Color WHITE | RE TO WIRE  TTE  11 10 9 8 7 6 5 4 3 2 1 1 20 19 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18 |                                                   | olor WHITE                | VATION METER                                                | Connec<br>Connec<br>Connec<br>H.S. | Connector No. Connector Color Connector Color | M77 The COMBIN OF WHITE                           | Connector No. M77  Connector Name COMBINATION METER  Connector Color WHITE  A1 42 43 44 45 46  A1 48 49 50 51 52 |  |
|-----------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------|-------------------------------------------------------------|------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--|
| Terminal No.                                                          | Color of Wire                            | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 23 24<br>Inal No                                  | 26 27 28<br>Color of Wire | 30 31 32 33 34 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37 | 39 40                              |                                               | Color of<br>Wire                                  | Signal Name                                                                                                      |  |
| 24                                                                    | ۵ -                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                 | В                         | GND                                                         | 41                                 |                                               |                                                   | CAN-H                                                                                                            |  |
| 67                                                                    | _                                        | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                   |                           |                                                             | 45                                 | V 10                                          | LA/G                                              | BAT                                                                                                              |  |
|                                                                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                   |                           |                                                             | 46                                 |                                               | LA/BR                                             | IGN                                                                                                              |  |
|                                                                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                   |                           |                                                             | 52                                 | 2                                             | В                                                 | G1                                                                                                               |  |
|                                                                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                   |                           |                                                             |                                    |                                               |                                                   |                                                                                                                  |  |
| Connector No.                                                         | lo. M78                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Connector No.                                     | o. M91                    |                                                             | Connec                             | Connector No.                                 | M158                                              |                                                                                                                  |  |
| Connector Name JOINT Connector Color WHITE                            | lame JOIN                                | Connector Name JOINT CONNECTOR-M28 Connector Color WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Connector Name WIRE TO WIRE Connector Color WHITE | ame WIRE T                | E TO WIRE                                                   | Connec                             | Connector Name                                | Connector Name WIRE TO WIRE Connector Color WHITE | TO WIRE                                                                                                          |  |
| H.S.                                                                  | 8 7                                      | 8 7 6 5 4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | H.S.                                              | 13 14 15 16 1             | 3 4 5 6 7 8 9 10 11 12<br>15 16 17 18 19 20 21 22 23 24     | 是<br>H.S.                          |                                               | 8 10 2 10 11                                      | 11 12 13 14 15 16                                                                                                |  |
| Terminal No.                                                          | Color of Wire                            | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Terminal No.                                      | Color of<br>Wire          | Signal Name                                                 | Terminal No.                       | nal No.                                       | Color of<br>Wire                                  | Signal Name                                                                                                      |  |
| -                                                                     | GR                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21                                                | LA/Y                      | 1                                                           |                                    |                                               | В                                                 | -                                                                                                                |  |
| 7                                                                     | GR                                       | ı                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                   |                           |                                                             |                                    |                                               |                                                   |                                                                                                                  |  |

AALIA2980GB

| G DIAGRAM >                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | [HALOGEN HEADLAMP]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Д      |
| Page    | CONTRC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | В      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B16   B16  | D      |
| Connector No. Connector Name Connector Color Teminal No. My 135 B 136 G G G G G G G G G G G G G G G G G G G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Connector No.   Connector Name   Connector Color   Connector Color   Connector Color   Connector Color   Col | Ε      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | F      |
| M170  JOINT CONNECTOR-M29  WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Signal Na                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | G<br>H |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Color Male B B B B B B B B B B B B B B B B B B B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |
| Connector No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Connector No.  Connector Color  Terminal No. Color  1 B  2 E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | J      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | K      |
| E E 6 7 8 9 10 11 12 17 18 119 20 21 22 22 24 24 24 24 24 24 24 24 24 24 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signal Na                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | XL     |
| 2. M168 ame WIRE T alor WHITE 1 2 3 4 5 13 14 15 16 17 Wire B B LA/G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | C C C C C C C C C C C C C C C C C C C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V      |
| M168   Connector Name   WIRE TO WIRE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color of   Col | mnector N nnector N nnector N nnector S 1 2 2 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Э      |

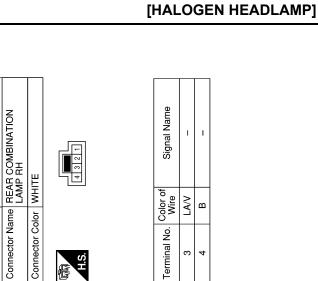
AALIA2165GB

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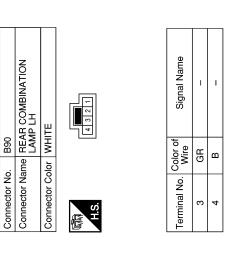
**EXL-61** 2016 Rogue NAM Revision: September 2015

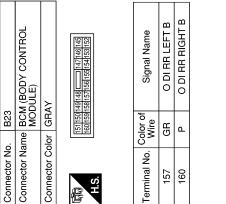
B102

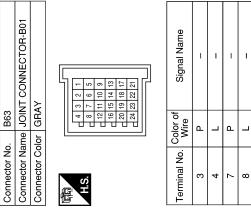
Connector No.



| LOSSICHL | E IO WIRE                     | <u> </u>                | !    | 3 4 5 | 8 9 10 11 12                                                                              |   | Signal Name                  | ı              |                 |  |  |  |
|----------|-------------------------------|-------------------------|------|-------|-------------------------------------------------------------------------------------------|---|------------------------------|----------------|-----------------|--|--|--|
|          | ne WIR                        | or WHI                  |      | 1 2   | 9                                                                                         |   | Solor of<br>Wire             | Ь              |                 |  |  |  |
|          | Connector Name   WIRE TO WIRE | Connector Color   WHITE |      |       | H.S.                                                                                      |   | Terminal No. Wire            | 11             |                 |  |  |  |
|          |                               |                         |      |       |                                                                                           | _ |                              |                |                 |  |  |  |
| _        | E TO WIRE                     |                         | !    |       | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19 |   | Signal Name                  | ı              | 1               |  |  |  |
|          | ne WIRI                       | or WHI                  |      |       | 3 4 5                                                                                     |   | Solor of<br>Wire             | ۵              | 7               |  |  |  |
|          | Connector Name WIRE TO WIRE   | Connector Color   WHITE |      |       | ဟ                                                                                         |   | Terminal No.   Color of Wire | 24             | 25              |  |  |  |
|          |                               |                         |      |       |                                                                                           |   |                              |                |                 |  |  |  |
|          | BCM (BODY CONTROL             | ULE)                    |      |       | 151 150 149 148                                                                           |   | Signal Name                  | O DI RR LEFT B | O DI RR RIGHT B |  |  |  |
|          | BCM                           | MOD                     | GRAY |       | 151150149148 T<br>16015915815715                                                          |   | olor of<br>Wire              | GR             | Ь               |  |  |  |







AALIA2166GB

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

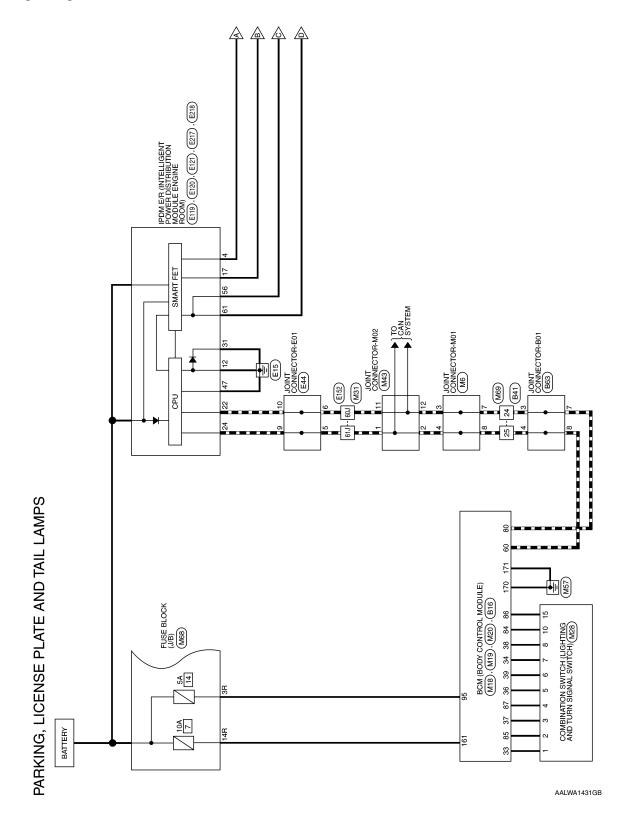
< WIRING DIAGRAM >

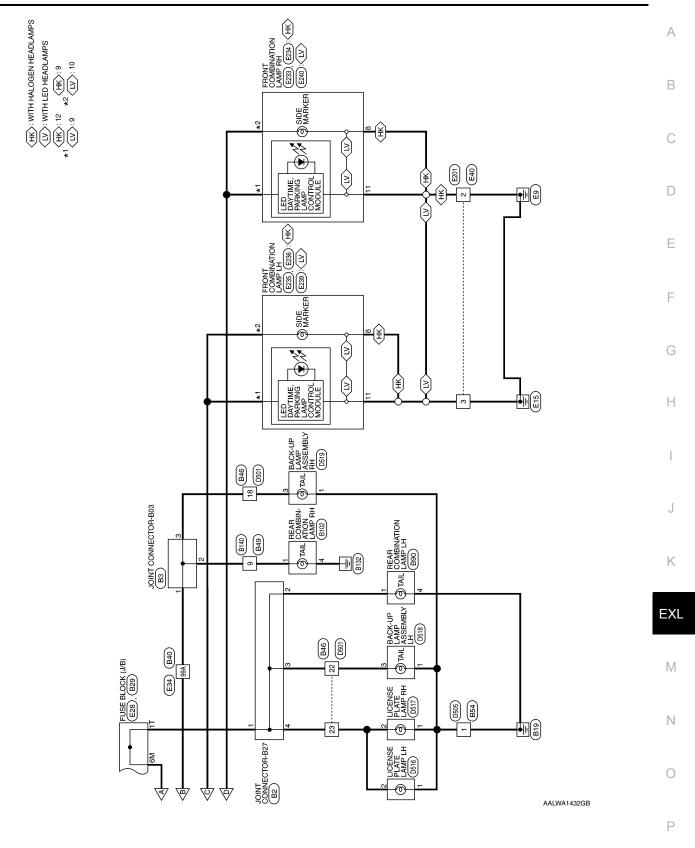
[HALOGEN HEADLAMP]

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | В   |
| D14   WHITE   WHITE  | DDOR MIRROR WHITE  WHITE    S   7   6   5   4   3   2     16   15   14   13   12   11   10     A/G   Signa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | С   |
| Vame   D04   Vame   D06   Vame   D06   Vame   Vam | No. D107 Vame DOOF Color of WHIT    Signature   Signat | D   |
| Connector No.   D14   Connector Name   DOOR MIRROR LH   Connector Color   WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Connector No.   D107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Е   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F   |
| MIRE 6 5 4 3 2 1 1 16 15 14 13 2 1 1 1 16 15 14 13 1 1 1 1 1 16 15 14 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | G   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Н   |
| Connector Name WIRE T Connector Color WHITE Connector Color WHITE  Terminal No. Color of Wire  2 LA/B  22 LA/G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Connector No. D102 Connector Name WIRE T Connector Color   16   6   4   Terminal No. Wire   16   14   13   Terminal No. Wire   16   14   13   Terminal No. Wire   16   16   16   16   16   Terminal No. Wire   16   16   16   16   16   Terminal No. Wire   16   16   16   16   16   Terminal No. Wire   16   16   16   16   Terminal No. Wire   16   16   16   16   16   16   Terminal No. Wire   16   16   16   16   16   Terminal No. Wire   16   16   16   16   16   16   16   Terminal No. Wire   16   16   16   16   16   16   16   1                                                                                                                                                                                                                 | I   |
| Connector No. Connector Cold Connector Cold A.S.  Terminal No.  2 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Connector No. Connector Colo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | J   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K   |
| MIRE  3 2 1 1 8 7 6 8 7 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | WIRE Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EXL |
| WIRE TO WIR WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | M   |
| Connector No. B140 Connector Name WIRE TO WIRE Connector Color WHITE  ##S.  Terminal No. Wire Signa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Connector No. D101  Connector Name WIRE TO WIRE  Connector Color WHITE  Table 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ν   |
| Connector No. Connector Color H.S. H.S. Terminal No. W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Connector Nar<br>Connector Cold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AALIA2239GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Р   |

# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram





SHORTING PIN

O CSW 4 O CSW 3

BG ۵

86 87 95

>

Connector Name BCM (BODY CONTROL MODULE)

M19

Connector No.

BLACK

Connector Color

Signal Name

Color of Wire

Terminal No.

O CSW 2 O CSW 1

S B

84 85

# PARKING, LICENSE AND TAIL LAMPS CONNECTORS

| Connector No. M18 | Connector Name B                 | MODULE)         | Connector Color   GRAY |
|-------------------|----------------------------------|-----------------|------------------------|
| M6                | inector Name JOINT CONNECTOR-M01 | GRAY            |                        |
| onnector No.   M6 | onnector Name                    | connector Color | - 1                    |

| M18               | Connector Name BCM (BODY CONTROL MODULE) | GRAY                 |  |
|-------------------|------------------------------------------|----------------------|--|
| Connector No. M18 | Connector Name                           | Connector Color GRAY |  |
|                   |                                          | 7                    |  |
|                   | OR-M01                                   |                      |  |

|      | 22 21                                                                             |                  |         |             |         |         |         |        |
|------|-----------------------------------------------------------------------------------|------------------|---------|-------------|---------|---------|---------|--------|
|      | 11 10 9 8 7 6 5 4 3<br>31 30 29 28 27 26 25 24 23                                 | Signal Name      | I CSW 5 | O CSW 5     | I CSW 3 | I CSW 4 | I CSW 1 | c Mooi |
|      | 17     16     15     14     13     12       37     36     35     34     33     32 | Color of<br>Wire | p_      | <b>&gt;</b> | ŋ       | GR      | >       | W      |
| H.S. | 20 19 18 17 16<br>40 39 38 37 36                                                  | Terminal No.     | 33      | 34          | 36      | 37      | 38      | 00     |

Signal Name

Color of Wire

Terminal No.

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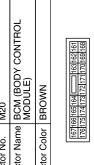
| Signal Name      | I CSM 5 | O CSW 5  | E MSO I | I CSW 4 | I CSM 1 | I CSM 2 |
|------------------|---------|----------|---------|---------|---------|---------|
| Color of<br>Wire | ГG      | <b>\</b> | g       | GR      | >       | Μ       |
| Terminal No.     | 33      | 34       | 98      | 37      | 38      | 68      |

| 38 | 39 |  |
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| Connector No.         | M20                                          |
|-----------------------|----------------------------------------------|
| Connector Name        | Connector Name   BCM (BODY CONTROL   MODULE) |
| Connector Color BROWN | BROWN                                        |

M28

Connector No.



| 드드 |   |
|----|---|
|    | į |
|    | • |

| Signal Name   | I PWR ECU | I GND1 | I GND2 |
|---------------|-----------|--------|--------|
| Color of Wire | ^<br>^    | В      | В      |
| Ferminal No.  | 161       | 170    | 171    |

| Connector Name (LIGHTING AND TURN SIGNAL SWITCH) | 11                    | 8 7 6 5 4 3 2 1<br>16 15 14 13 12 11 10 9 | Signal Name      | 1  | I  | ı  |
|--------------------------------------------------|-----------------------|-------------------------------------------|------------------|----|----|----|
| me CON<br>SIGI                                   | lor WHI               | 8 7 8 14 15 14                            | Color of<br>Wire | ГG | SB | GR |
| Connector Na                                     | Connector Color WHITE | 画<br>H.S.                                 | Terminal No.     | 1  | 2  | ဇ  |

| Ferminal No. Color of Wire 5 G G G 7 Y Y Y Y 10 BR 10 BR 15 P | Signal Name      | 1 | 1 | I           | I | ı  | I  |
|---------------------------------------------------------------|------------------|---|---|-------------|---|----|----|
| 6 6 7 7 8 8 110 15                                            | Color of<br>Wire | В | Μ | <b>&gt;</b> | > | BR | ۵  |
| Terr                                                          | Terminal No.     | 2 | 9 | 7           | 8 | 10 | 15 |

AALIA2957GB

# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

### [HALOGEN HEADLAMP]

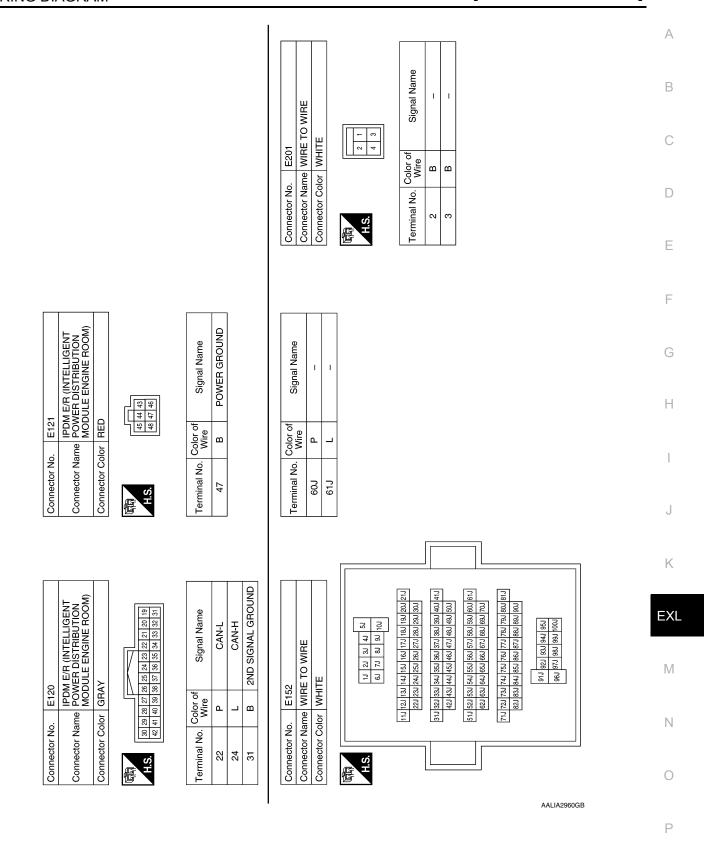
| Connector No.   M43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Terminal No. Color of Signal Name  6M Y — — — — — — — — — — — — — — — — — — |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <del>     </del>                                                            |
| Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Signal Name                                                                 |
| Forminal No. Color of Signa 60.0 P L C Connector No. M69 Connector Name WIRE TO WIRE Connector Color WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Terminal No. Color of Wire 24 P P 25 L                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | J F                                                                         |
| M31   WIRE TO WIRE   Su   WIRE TO WIRE   Su   Au   3u   2u   1u   Su   Su   Su   Su   Su   Su   Su   S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Signal Name                                                                 |
| Connector No. M31  Connector Name WIRE TO WIRE  Connector Color WHITE  \$\frac{4}{10} \text{ at } \frac{1}{2} \text{ bt } \frac{1}{2} \text{ at } \frac | A Wire Wire N                                                               |
| Conne<br>Conne<br>Conne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AALIA2958GB  AALIA2958GB                                                    |

| Connector No.   E40   Connector Name   WIRE TO WIRE   Connector Color   WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PDM F/R (INTELLIGENT Connector Name   POWER DISTRIBUTION MODULE ENGINE ROOM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Terminal No. Color of Wire 99A W –                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Terminal No. Wire       Color of Wire       Signal Name         5       L       -         6       P       -         9       L       -         10       P       -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Connector No.   E34   Connector Name   WIRE TO WIRE   Connector Color   GRAY   Connector Color   Color   Connector Color   Color   Connector Color   Color   Connector Col | Connector No. E44 Connector Name JOINT CONNECTOR-E01 Connector Color WHITE H.S.  H.S.  REPRESENTATION OF THE PROPERTY OF THE P |

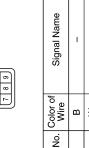
### PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

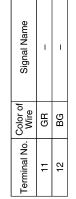
[HALOGEN HEADLAMP]



| Connector No.         | E233                                            |
|-----------------------|-------------------------------------------------|
| Connector Name        | Connector Name LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Color BLACK | BLACK                                           |



| Signal Name      | ı | ı |  |
|------------------|---|---|--|
| Color of<br>Wire | В | Ν |  |
| Terminal No.     | 8 | 6 |  |



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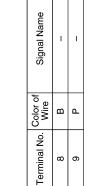
| Connector No.         | E218                                                  |
|-----------------------|-------------------------------------------------------|
| Connector Name        | Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color WHITE | WHITE                                                 |
|                       |                                                       |

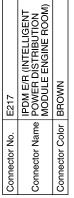


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|----|--------|----------------------------|
| 61 | ВĐ     | O LIGHT CLEARANCE<br>FR RH |
|    |        |                            |

| Connector No.         | E235                                         |
|-----------------------|----------------------------------------------|
| Connector Name        | Connector Name LAMP LH (WITH HALOGEN HEADLAM |
| Connector Color BLACK | BLACK                                        |

Z









| E234          | Connector Name LAMP RH (WITH HALOGEN HEADLAMPS) | GRAY                 |  |
|---------------|-------------------------------------------------|----------------------|--|
| Connector No. | Connector Name                                  | Connector Color GRAY |  |





|          | Signal Nam   | ı  | I  |
|----------|--------------|----|----|
| Color of | Wire         | GR | GR |
|          | Terminal No. | =  | 12 |

AALIA2961GB

# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

[HALOGEN HEADLAMP]

| Connector No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                           |   | Connector No.                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MOITAINIGE SOCIETY                                                   |                         | Connector No. | No. B2                                      | COTOTIANOO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Connector Name<br>Connector Color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FRONT COMBINATION<br>LAMP LH (WITH LED<br>HEADLAMPS)<br>BLACK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   | Connector Name                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FRONT COMBINATION<br>LAMP RH (WITH LED<br>HEADLAMPS)<br>BLACK        |                         | Connector     | Connector Name JOINT (Connector Color WHITE | ŏII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | B27 |
| H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8 9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   | H.S.                                                                                | 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 11 10 11 11 11 11 11 11 11 11 11 11 1                             |                         | 山东<br>H.S.    | 4 8                                         | 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |
| Colc   William   Colc   William    | Color of Wire Signal Name Wire BG - B - BB - BB - BB - BB - BB - BB -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   | Terminal No. 9 10 11                                                                | Color of Wire GR W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Signal Name                                                          |                         | Terminal No.  |                                             | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Φ   |
| Connector No. B3 Connector Name JOINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Connector No. B3 Connector Name JOINT CONNECTOR-B03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   | Connector No.                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | B16<br>BCM (BODY CONTROL<br>MODULE)                                  |                         | Connector No. | No. B29<br>Name FUSE                        | Connector No.   B29   Connector Name   FUSE BLOCK (J/B)   Connecto |     |
| H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4 3 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   | Connector Color H.S.  H.S.  (8) 59 58 57 56 55 5 50 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 48 53 74 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 84 73 | SE 51 50 49 48 47 46 45 44 43 42 41 77 70 69 68 67 66 65 64 63 62 61 | 44 43 62 41<br>63 62 61 | H.S.          | ·                                           | 2T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |
| Cok   Cok   Terminal No.   Will   W | Color of Signal Name Wire Signal Name LA/BR - |   | Terminal No. 60 80                                                                  | Color of Wire L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Signal Name CAN-H CAN-L                                              |                         | Terminal No.  | Io. Color of Wire                           | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Φ   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| N<br>O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EXL<br>M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | K | J                                                                                   | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | G<br>H                                                               | F                       | Е             | D                                           | В                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |

### < WIRING DIAGRAM >

| Connector No.   B41   Connector Name   WIRE TO WIRE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color of   Title 19 20 21 22 23 24 25 26 27 28 29 30 31 22   Color of   Signal Name   Color of   Color of   Signal Name   Color of   Color | Connector No. B54 Connector Name WIRE TO WIRE Connector Color WHITE  H.S.  Terminal No. Color of Wire  1 B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminal No. Color of Signal Name 99A LA/BR –                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Connector No.   B49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| San   San  | Connector No.   B46   Connector Name   WIRE TO WIRE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   Colo |

# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

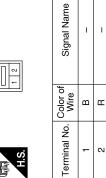
< WIRING DIAGRAM >

[HALOGEN HEADLAMP]

| Connector No. B102 Connector Name REAR COMBINATION LAMP RH Connector Color WHITE                                      | Terminal No. Wire Signal Name  1 LA/BR –  4 B –                                                                                                                                        | Connector No. D505 Connector Color WHITE Connector Color WHITE  Terminal No. Color of Signal Name  1 B   | A<br>B<br>C<br>D |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------|
| Connector No. B90 Connector Name REAR COMBINATION LAMP LH Connector Color WHITE                                       | Terminal No. Color of Wire Signal Name  1 LA/R –  4 B –                                                                                                                                | Connector No.   D501   Connector Name   WIRE TO WIRE   Connector Color   WHITE   Connector Color   WHITE | F<br>G<br>H<br>J |
| Connector No. B63  Connector Name JOINT CONNECTOR-B01  Connector Color GRAY  H.S.   1   1   1   1   1   1   1   1   1 | Terminal No.         Color of Wire         Signal Name           3         P         -           4         L         -           7         P         -           8         L         - | Connector No. B140 Connector Name WIRE TO WIRE Connector Color WHITE  Terminal No. Wire  9 LA/BR         | K  EXI  M  N     |

| Connector No.         | o. D518          | 18                                      |
|-----------------------|------------------|-----------------------------------------|
| Connector Na          | ame BA(          | Connector Name BACK-UP LAMP ASSEMBLY LH |
| Connector Color WHITE | olor WF          | IITE                                    |
| 南<br>H.S.             |                  | 2 3                                     |
| Terminal No.          | Color of<br>Wire | Signal Name                             |
| -                     | GR               | 1                                       |
|                       |                  |                                         |

| Connector No.         | D517                                 |
|-----------------------|--------------------------------------|
| Connector Name        | Connector Name LICENSE PLATE LAMP RI |
| Connector Color BROWN | BROWN                                |
|                       |                                      |



| Connector No.         | ). D516          | 9                                    |
|-----------------------|------------------|--------------------------------------|
| Connector Na          | ame LICE         | Connector Name LICENSE PLATE LAMP LH |
| Connector Color BROWN | olor BRC         | NWC                                  |
| H.S.                  |                  |                                      |
| Terminal No.          | Color of<br>Wire | Signal Name                          |
| -                     | В                | ı                                    |
| 2                     | Ы                | ı                                    |

| Connector No.         | D519                                    |
|-----------------------|-----------------------------------------|
| Connector Name        | Connector Name BACK-UP LAMP ASSEMBLY RH |
| Connector Color WHITE | WHITE                                   |
|                       |                                         |

| 2   | Signal Name       | ı  | I    |
|-----|-------------------|----|------|
| -]] | Color of<br>Wire  | GR | LA/R |
| Ċ.  | Terminal No. Wire | -  | 8    |

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# STOP LAMP

Wiring Diagram

STOP LAMP

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AALWA1427GB

Connector Name FUSE BLOCK (J/B)

Connector Name FUSE BLOCK (J/B)

Connector No. M68

Connector Color BROWN

E28

Connector No.

Connector Color WHITE

4M 3M C 3M 1M 10M 9M 8M 7M 6M 5M

Œ

7R 6R 5R 4R I 16R 15R 14R 13R 12

# STOP LAMP CONNECTORS

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

| r Name BCM (BODY CONTROL MODULE) | r Color BROWN | 167166165164   163162161 |   |
|----------------------------------|---------------|--------------------------|---|
| r Name                           | Color         |                          | L |



| 176[178[174]178[177]170[169]168 | Signal Name      | I PWR STOP LAMP | I GND1 | 00140 |
|---------------------------------|------------------|-----------------|--------|-------|
| 176175                          | Color of<br>Wire | GR              | В      | ٥     |
| 明.S.                            | Terminal No.     | 169             | 170    | 717   |

| Terminal No.              | 10R             |        |        |
|---------------------------|-----------------|--------|--------|
|                           |                 |        |        |
| Signal Name               | I PWR STOP LAMP | I GND1 | I GND2 |
| Color of<br>Wire          | ВĐ              | В      | В      |
| erminal No. Color of Wire | 169             | 170    | 171    |



Signal Name

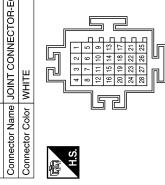
Color of Wire

Terminal No. 2W

Signal Name

Color of Wire GR





| Signal Name     | ı | ı  |
|-----------------|---|----|
| olor of<br>Wire | ۸ | ГG |

Terminal No.

N

Signal Name

Color of Wire

Terminal No.

9 9

23

|  | ιġ |
|--|----|
|  |    |
|  |    |
|  |    |
|  |    |

3 4

Connector Name STOP LAMP SWITCH

Connector Name | BCM (BODY CONTROL | MODULE)

E29

Connector No.

Connector Color BLACK

E38

Connector No.

Connector Color WHITE

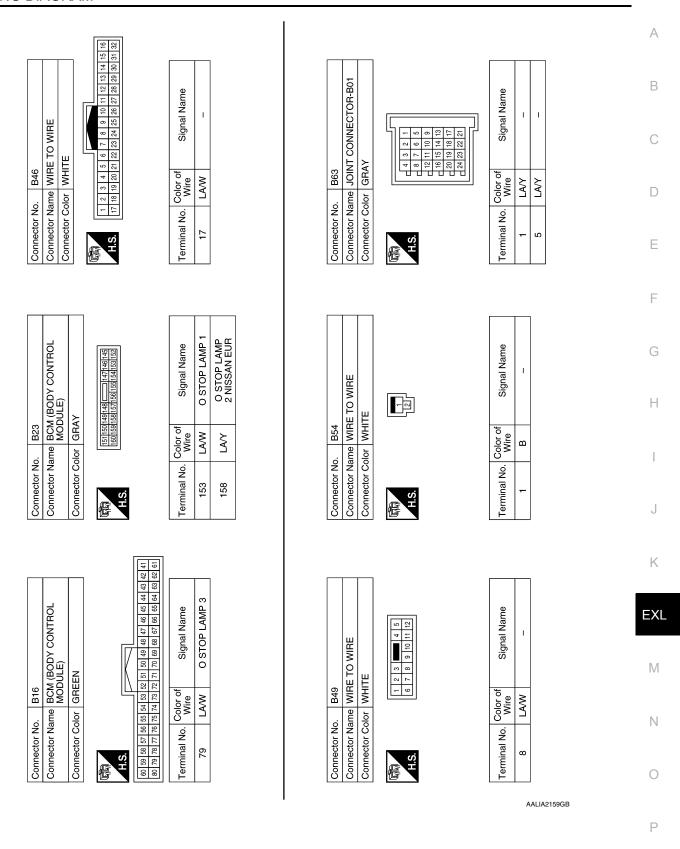
| F | H.S. |
|---|------|
|   |      |

| 132131130129128127126125124123122121 | 144 143 142 141 140 139 138 137 136 135 134 133 |   |
|--------------------------------------|-------------------------------------------------|---|
|                                      |                                                 | • |

| ₹I                | l . |
|-------------------|-----|
| 141               |     |
| 142               |     |
| 43                |     |
| 144 143 142 141 1 |     |
|                   | J   |
|                   |     |
|                   |     |
|                   |     |
|                   |     |

| Signal Name        | I BRAKE SW2 |  |
|--------------------|-------------|--|
| Color of Wire Sign | LG I BR     |  |
| Terminal No.       | 125         |  |

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|               |                                                   | 7                     |           |                   |     | 1 |  |  |
|---------------|---------------------------------------------------|-----------------------|-----------|-------------------|-----|---|--|--|
|               | TO WIRE                                           |                       | 109876    | Signal Name       | ı   |   |  |  |
| B140          | ne WIRE<br>or WHIT                                |                       | 12 11     | Color of<br>Wire  | LAY |   |  |  |
| Connector No. | Connector Name WIRE TO WIRE Connector Color WHITE |                       | 赋<br>H.S. | Terminal No. Wire | 8   |   |  |  |
|               |                                                   |                       | l         |                   |     |   |  |  |
|               | Connector Name REAR COMBINATION LAMP RH           | E                     | 4 3 2 1   | Signal Name       | ı   | 1 |  |  |
| . B102        | me REAI                                           | or WHII               |           | Color of<br>Wire  | LAY | В |  |  |
| Connector No. | Connector Na                                      | Connector Color WHITE | 雨<br>H.S. | Terminal No. Wire | 2   | 4 |  |  |
|               |                                                   |                       |           |                   |     |   |  |  |
|               | S COMBINATION<br>LH                               | Е                     | 4 3 2 1   | Signal Name       | ı   | ı |  |  |
| B90           | ne REAF<br>LAMP                                   | or WHIT               | ر ا       | Solor of<br>Wire  | LAY | В |  |  |
| Connector No. | Connector Name REAR COMBIN                        | Connector Color WHITE | 原<br>H.S. | Terminal No. Wire | 2   | 4 |  |  |

| Connector No. D503         | D503                             | Connector No. D505    | D505                          |
|----------------------------|----------------------------------|-----------------------|-------------------------------|
| Connector Name             | Connector Name HIGH-MOUNTED STOP | Connector Name        | Connector Name   WIRE TO WIRE |
|                            | LAMP                             | Connector Color WHITE | WHITE                         |
| Connector Color WHITE      | WHITE                            |                       |                               |
| H.S.                       | 2 1                              | 是<br>H.S.             |                               |
| Terminal No. Color of Wire | or of Signal Name                | Terminal No.          | olor of Signal Name           |
| -                          | -                                | -                     | В                             |
| 2                          | - В                              |                       |                               |
| Terminal No. Co            |                                  | <b>1</b> 00           | Signal Name                   |

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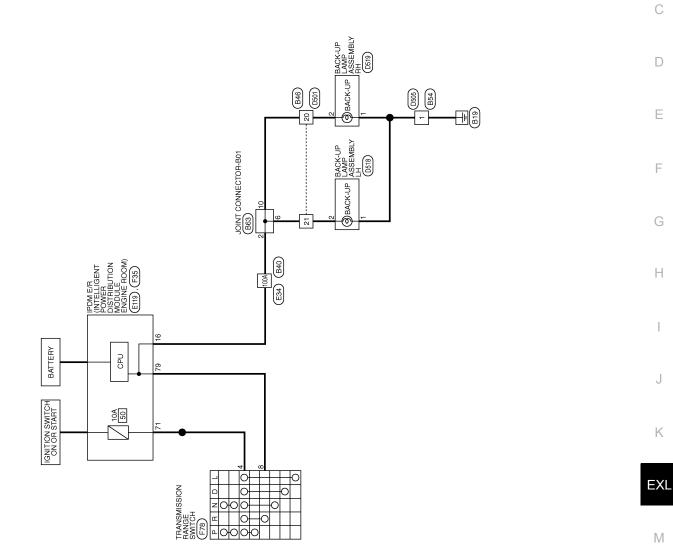
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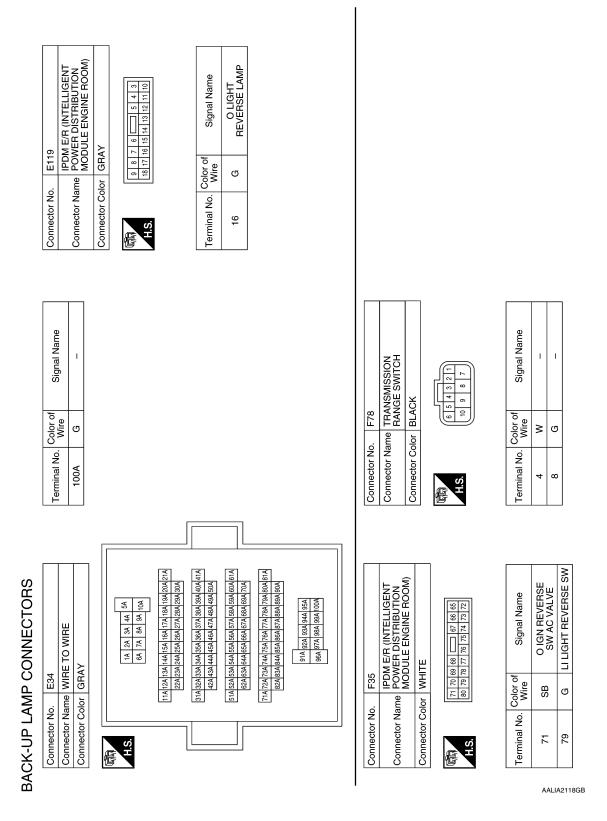
# **BACK-UP LAMP**

Wiring Diagram



**BACK-UP LAMP** 

AALWA1044GB



| 61            | BACK-UP LAMP<br>ASSEMBLY RH | WHITE           | 1 2 3     | Signal Name      | ı  | 1   |
|---------------|-----------------------------|-----------------|-----------|------------------|----|-----|
| . D519        | me BA                       |                 |           | Color of<br>Wire | GR | LAL |
| Connector No. | Connector Name              | Connector Color | 雨<br>H.S. | Terminal No.     | 1  | 2   |

| Connector No.                           | D518             | 8                       |
|-----------------------------------------|------------------|-------------------------|
| Connector Name BACK-UP LAMP ASSEMBLY LH | ame BAC<br>ASS   | XK-UP LAMP<br>SEMBLY LH |
| Connector Color WHITE                   | olor WHI         | TE                      |
| H.S.                                    |                  |                         |
| Terminal No. Wire                       | Color of<br>Wire | Signal Name             |
| -                                       | В                | I                       |
| 2                                       | LA/G             | ı                       |

| Connector Name         WIRE TO WIRE           Connector Color         WHITE           H.S.         Internation of Wire           Terminal No.         Color of Wire           1         B | Connector No. | o. D505          | 15         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|------------|
|                                                                                                                                                                                           | Connector Na  | ame WIF          | RE TO WIRE |
|                                                                                                                                                                                           | Connector Co  | olor WH          | ІТЕ        |
|                                                                                                                                                                                           | H.S.          |                  |            |
|                                                                                                                                                                                           | Terminal No.  | Color of<br>Wire |            |
|                                                                                                                                                                                           | 1             | В                | _          |

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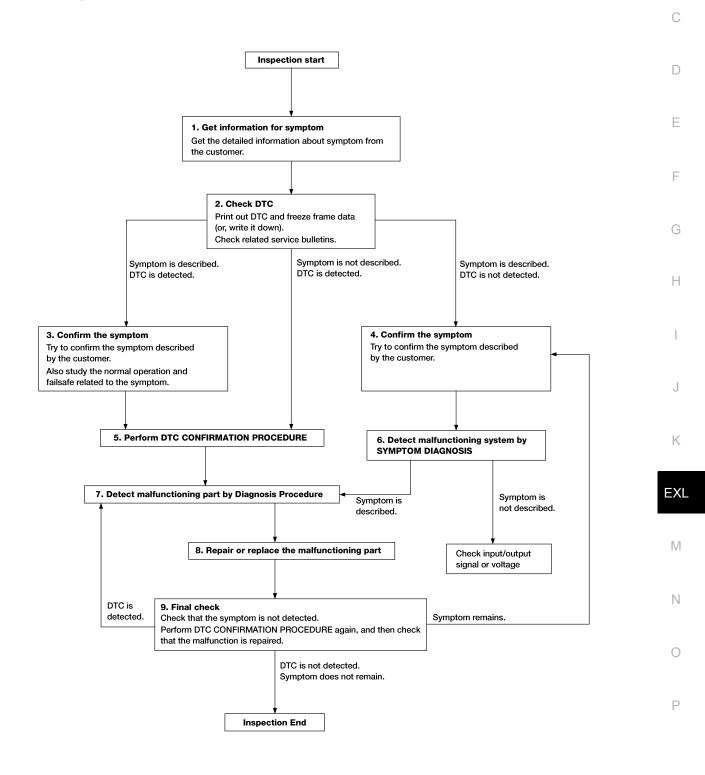
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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

**OVERALL SEQUENCE** 



ALAIA0158GB

#### DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[HALOGEN HEADLAMP]

# 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. If two or more DTCs are detected, refer to <a href="BCS-47">BCS-47</a>, "DTC Inspection Priority Chart" (BCM) (with Intelligent Key System) or <a href="BCS-109">BCS-109</a>, "DTC Inspection Priority Chart" (BCM) (without Intelligent Key System) or <a href="PCS-17">PCS-17</a>, "Reference Value" (IPDM E/R), and determine trouble diagnosis order.

#### 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 CON-SULT.

#### **DIAGNOSIS AND REPAIR WORKFLOW**

< BASIC INSPECTION >

[HALOGEN HEADLAMP]

|   | 7                                                  |
|---|----------------------------------------------------|
| 1 | DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE |

Inspect according to Diagnostic Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-45, "Intermittent Incident".

# 8.REPAIR OR REPLACE THE MALFUNCTIONING PART

- Repair or replace the malfunctioning part.
- 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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Revision: September 2015 EXL-85 2016 Rogue NAM

#### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# DTC/CIRCUIT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

Regarding Wiring Diagram information, refer to BCS-51, "Wiring Diagram".

## 1. CHECK FUSE

Check that the following fuse is not blown.

| Terminal No. | Signal name      | Fuse No. |
|--------------|------------------|----------|
| 161          | BCM power supply | 7 (10A)  |

#### Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

# $2.\,$ CHECK POWER SUPPLY CIRCUIT

- Disconnect BCM connector M20.
- 2. Check voltage between BCM connector M20 and ground.

| BCM       |                    | Ground | Voltage<br>(Approx.) |  |
|-----------|--------------------|--------|----------------------|--|
| Connector | Connector Terminal |        |                      |  |
| M20       | 161                | _      | Battery voltage      |  |

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

## 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

| BCM       |          | Ground | Continuity |  |
|-----------|----------|--------|------------|--|
| Connector | Terminal | Ground | Continuity |  |
| M20       | 170      |        | Yes        |  |
|           | 171      | _      | 165        |  |

## Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

Regarding Wiring Diagram information, refer to BCS-112, "Wiring Diagram".

# 1. CHECK FUSE

#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

Check that the following fuse is not blown.

| Terminal No. | Signal name      | Fuse No. |
|--------------|------------------|----------|
| 161          | BCM power supply | 7 (10A)  |

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

# 2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector M20.
- Check voltage between BCM connector M20 and ground.

| всм       |          | Ground | Voltage         |  |
|-----------|----------|--------|-----------------|--|
| Connector | Terminal | Ground | (Approx.)       |  |
| M20       | 161      | _      | Battery voltage |  |

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

# 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

| ВСМ       |          | Ground  | Continuity |  |
|-----------|----------|---------|------------|--|
| Connector | Terminal | Giodila | Continuity |  |
| M20       | 170      |         | Yes        |  |
|           | 171      | _       | res        |  |

## Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

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## **OPTICAL SENSOR**

# **Component Function Check**

INFOID:0000000012422995

# 1. CHECK OPTICAL SENSOR SIGNAL BY CONSULT

#### **©CONSULT DATA MONITOR**

- Turn ignition switch ON.
- Select "OPTICAL SENSOR" in "Data Monitor" of "BCM (HEADLAMP)".
- 3. Turn lighting switch AUTO.
- 4. With the optical sensor illuminating, check the monitor status.

| Monitor item                  | Condition           |                         | Voltage (Approx.) |
|-------------------------------|---------------------|-------------------------|-------------------|
| OPTICAL SENSOR Optical sensor | ISOB Optical concer | When illuminating       | 3.1 V or more *   |
|                               | Optical serisor     | When shutting off light | 0.6 V or less     |

<sup>\*:</sup> Illuminates the optical sensor. The value may be less than the standard value if brightness is weak.

#### Is the inspection result normal?

YES >> Optical sensor is normal.

NO >> Refer to EXL-88, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000012422996

# 1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

- 1. Turn ignition switch ON.
- 2. Turn lighting switch AUTO.
- Check voltage between optical sensor harness connector and ground.

| (+)<br>Optical sensor |          | (-)    | Voltage<br>(Approx.) |  |
|-----------------------|----------|--------|----------------------|--|
| Connector             | Terminal |        | (-1-10-0-11)         |  |
| M13                   | 1        | Ground | 5 V                  |  |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

# 2.CHECK OPTICAL SENSOR GROUND INPUT

Check voltage between optical sensor harness connector and ground.

| (+) Optical sensor |          |        | Voltage<br>(Approx.) |  |
|--------------------|----------|--------|----------------------|--|
|                    |          | (–)    |                      |  |
| Connector          | Terminal |        | ( )                  |  |
| M13                | 3        | Ground | 0 V                  |  |

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 6.

# 3.CHECK OPTICAL SENSOR SIGNAL OUTPUT

With illuminating the optical sensor, check voltage between optical sensor harness connector and ground.

| (+<br>Optical : | ,        | (-)    | Condition                        |                         | (-) Condition Voltage (Approx.) | Voltage<br>(Approx.) |
|-----------------|----------|--------|----------------------------------|-------------------------|---------------------------------|----------------------|
| Connector       | Terminal |        |                                  |                         | ( ) ( )                         |                      |
| M13             | 2        | Ground | Onticel concer When illuminating |                         | 3.1 V or more *                 |                      |
| IVI I S         | 2        | Giouna | Optical sensor                   | When shutting off light | 0.6 V or less                   |                      |

\*: Illuminate the optical sensor. The value may be less than the standard if brightness is weak.

#### Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace the optical sensor.

## 4. CHECK OPTICAL SENSOR OPEN CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect optical sensor connector and BCM connector.
- Check continuity between optical sensor harness connector and BCM harness connector.

| Optical sensor |          | BCM                |    | Continuity |
|----------------|----------|--------------------|----|------------|
| Connector      | Terminal | Connector Terminal |    | Continuity |
| M13            | 1        | M18                | 12 | Yes        |

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

#### ${f 5}.$ CHECK OPTICAL SENSOR SHORT CIRCUIT

Check continuity between optical sensor harness connector and ground.

| Optical sensor |          |        | Continuity |
|----------------|----------|--------|------------|
| Connector      | Terminal | Ground | Continuity |
| M13            | 1        |        | No         |

#### Is the inspection result normal?

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

NO >> Repair or replace harness.

## $oldsymbol{6}.$ CHECK OPTICAL SENSOR GROUND OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect optical sensor connector and BCM connector.
- Check continuity between optical sensor harness connector and BCM harness connector.

| Optica    | l sensor | В                  | BCM |            |
|-----------|----------|--------------------|-----|------------|
| Connector | Terminal | Connector Terminal |     | Continuity |
| M13       | 3        | M18                | 30  | Yes        |

#### 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 harness.

## /.CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect optical sensor connector and BCM connector.
- Check continuity between optical sensor harness connector and BCM harness connector.

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## **OPTICAL SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

| Optica    | Optical sensor |                    | BCM |            |
|-----------|----------------|--------------------|-----|------------|
| Connector | Terminal       | Connector Terminal |     | Continuity |
| M13       | 2              | M18                | 19  | Yes        |

#### Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

# 8. CHECK OPTICAL SENSOR SHORT CIRCUIT

Check continuity between optical sensor harness connector and ground.

| Optical sensor |                    |  | Continuity |
|----------------|--------------------|--|------------|
| Connector      | Connector Terminal |  | Continuity |
| M13            | 2                  |  | No         |

#### Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-76</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-137</u>, "Removal and Installation" (without Intelligent Key system).

NO >> Repair or replace harness.

## HAZARD SWITCH

# Component Function Check

#### INFOID:0000000012422997

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# ${f 1}$ . CHECK HAZARD SWITCH SIGNAL BY CONSULT

## (E)CONSULT DATA MONITOR

- Turn ignition switch ON.
- Select "HAZARD SW" in "Data Monitor" of "BCM (FLASHER)".
- With operating the hazard switch, check the monitor status.

| Monitor item | Con            | Monitor status |     |
|--------------|----------------|----------------|-----|
| HAZARD SW    | Hazard switch  | ON On          |     |
|              | riazaru switch | OFF            | Off |

#### Is the inspection result normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to EXL-91, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000012422998

# 1. CHECK HAZARD SWITCH SIGNAL INPUT

- Turn ignition switch OFF.
- Disconnect hazard switch connector.
- Check voltage between hazard switch connector and ground.

| (-)    | Voltage (Approx.) |
|--------|-------------------|
|        |                   |
| Ground | Battery voltage   |
|        |                   |

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

# 2.check hazard switch signal open circuit

- Disconnect BCM connector.
- Check continuity between hazard switch harness connector and BCM harness connector.

| Hazard switch |          | В                  | Continuity |            |  |
|---------------|----------|--------------------|------------|------------|--|
| Connector     | Terminal | Connector Terminal |            | Continuity |  |
| M26           | 2        | M18                | 11         | Yes        |  |

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

Check continuity between hazard switch harness connector and ground.

| Hazaro             | d switch |        | Continuity |
|--------------------|----------|--------|------------|
| Connector Terminal |          | Ground | Continuity |
| M26                | 2        |        | 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 harness.

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## **HAZARD SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# 4. CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

Check continuity between hazard switch harness connector and ground.

| Hazard switch |          |        | Continuity |
|---------------|----------|--------|------------|
| Connector     | Terminal | Ground | Continuity |
| M26           | 3        |        | Yes        |

#### Is the inspection result normal?

YES >> Replace hazard switch. Refer to EXL-126, "Removal and Installation".

NO >> Repair or replace harness.

#### TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

## TURN SIGNAL LAMP CIRCUIT

Description INFOID:0000000012422999

The BCM monitors inputs from the combination switch (lighting and turn signal switch) to determine when to activate the turn signals. The BCM outputs voltage direction to the left and right turn signals during turn signal operation or both during hazard warning operation. The BCM sends a turn signal indicator request to the combination meter via the CAN communication lines.

The BCM performs the fast flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is

#### NOTE:

Turn signal lamp blinks at normal speed when using the hazard warning lamp.

## Component Function Check

# 1.CHECK TURN SIGNAL LAMP

#### (P)CONSULT

- 1. Select "FLASHER" in "Active Test" of "BCM (FLASHER)".
- While operating the test items, check that the turn signal lamp blinks.

LH : Turn signal lamps (LH) ON RH : Turn signal lamps (RH) ON Off : Turn signal lamps OFF

#### Is the inspection result normal?

YES >> Turn signal lamp circuit is normal.

>> Refer to EXL-93, "Diagnosis Procedure". NO

## Diagnosis Procedure

Regarding Wiring Diagram information, refer to <a>EXL-57</a>, "Wiring Diagram".

# 1. CHECK TURN SIGNAL LAMP BULB

Check the applicable lamp bulb to be sure the proper bulb standard is in use and the bulb is not open.

#### Is the bulb OK?

YES >> GO TO 2.

NO >> Replace the bulb.

# 2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

- Turn the ignition switch OFF.
- 2. Disconnect the front combination lamp harness connector, door mirror harness connector or the side turn signal harness connector or the rear combination lamp harness connector in question.
- Turn the ignition switch ON.
- Operate the turn signal switch.
- 5. While the turn signal is operating, check the voltage between the front combination lamp harness connector and ground.

| (+)       |          | (-) | Voltage   |  |
|-----------|----------|-----|-----------|--|
| Connector | Terminal | (-) | (Approx.) |  |

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| LH | E105 |   |        |               |
|----|------|---|--------|---------------|
| RH | E103 | 1 | Ground | 1 s PKID0926E |

6. While the turn signal is operating, check the voltage between the door mirror harness connector and ground.

|    | (+) Connector Terminal |    | (_)    | Voltage<br>(Approx.)             |  |
|----|------------------------|----|--------|----------------------------------|--|
|    |                        |    | (-)    | (Approx.)                        |  |
| LH | D14                    |    |        |                                  |  |
| RH | D107                   | 13 | Ground | (V)<br>15<br>10<br>5<br>0<br>1 s |  |

7. While the turn signal is operating, check the voltage between the rear combination lamp harness connector and ground.

|    | (+) Connector Terminal |   | ( )    | Voltage<br>(Approx.)             |  |
|----|------------------------|---|--------|----------------------------------|--|
|    |                        |   | (-)    | (Approx.)                        |  |
| LH | B90                    |   |        |                                  |  |
| RH | B102                   | 3 | Ground | (V)<br>15<br>10<br>5<br>0<br>1 s |  |

#### Are the inspection results normal?

YES >> GO TO 5.

NO >> GO TO 3.

# 3.CHECK TURN SIGNAL LAMP CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM harness connector E29, M18 or B23.
- Check continuity between the BCM harness connector E29 and the front combination lamp harness connector.

| BCM |         |          | Front comb | ination lamp | Continuity |
|-----|---------|----------|------------|--------------|------------|
| Cor | nnector | Terminal | Connector  | Terminal     | Continuity |
| LH  | E29     | 135      | E105       | 1            | Yes        |
| RH  |         | 136      | E103       | 1            | 165        |

4. Check continuity between the BCM harness connector B23 and the door mirror harness connector.

|     | BCM     |          | Door mirror |          | Continuity |  |
|-----|---------|----------|-------------|----------|------------|--|
| Coi | nnector | Terminal | Connector   | Terminal | Continuity |  |
| LH  | M18     | 2        | D14         | 13       | Yes        |  |
| RH  | IVI TO  | 3        | D107        |          | 165        |  |

#### **TURN SIGNAL LAMP CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [HALOGEN HEADLAMP]

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| 5. | Check continuity between the BCM harness connector B23 and the rear combination lamp harness con |
|----|--------------------------------------------------------------------------------------------------|
|    | nector.                                                                                          |

| BCM |         |          | Rear comb | ination lamp | Continuity |  |
|-----|---------|----------|-----------|--------------|------------|--|
| Co  | nnector | Terminal | Connector | Terminal     | Continuity |  |
| LH  | B23     | 157      | B90       | 2            | Yes        |  |
| RH  | 623     | 160      | B102      | 3            | ies        |  |

#### Are the inspection results normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connectors.

## 4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector E29 and ground.

| ВСМ |         |          |        | Continuity |
|-----|---------|----------|--------|------------|
| Cor | nnector | Terminal |        | Continuity |
| LH  | E20     | 135      | Ground | No         |
| RH  | E29     | 136      |        | INO        |

Check continuity between the BCM harness connector M18 and ground.

| BCM |         |          | Continuity |            |
|-----|---------|----------|------------|------------|
| Cor | nnector | Terminal | Cround     | Continuity |
| LH  | B18     | 2        | Ground     | No         |
| RH  | БЮ      | 3        |            | NO         |

Check continuity between the BCM harness connector M23 and ground.

|    | BCM      |          |          | Continuity |
|----|----------|----------|----------|------------|
| Co | onnector | Terminal | Cround   | Continuity |
| LH | B23      | 157      | - Ground | No         |
| RH | B23      | 160      |          |            |

#### Are the inspection results normal?

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

NO >> Repair or replace the harness or connectors.

# 5.CHECK TURN SIGNAL LAMP GROUND CIRCUIT

Turn the ignition switch OFF.

Check continuity between the front combination lamp harness connector, the door mirror connector or the rear combination lamp harness connector in question and ground.

| Front combination lamp |           |   | ( )     | Continuity |
|------------------------|-----------|---|---------|------------|
| Connec                 | Connector |   | (-)     | Continuity |
| LH                     | E105      | 2 | Ground  | Yes        |
| RH                     | E103      | 2 | Giodila | 165        |

Check continuity between the door mirror harness connector and ground.

| Door mirror | (-)      | Continuity |            |
|-------------|----------|------------|------------|
| Connector   | Terminal | (-)        | Continuity |

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## **TURN SIGNAL LAMP CIRCUIT**

## < DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

| LH | D14  | 14               | Ground | Voc |
|----|------|------------------|--------|-----|
| RH | D107 | , <del>, ,</del> | Ground | Yes |

4. Check continuity between the rear combination lamp harness connector and ground.

| Rear combination lamp |                    |   | ( )    | Continuity |
|-----------------------|--------------------|---|--------|------------|
| Connec                | Connector Terminal |   | (-)    | Continuity |
| LH                    | B90                | 4 | Ground | Yes        |
| RH                    | B102               | 4 | Giouna | 165        |

#### Are the inspection results normal?

YES >> Replace the malfunctioning lamp.

NO >> Repair or replace the harness or connectors.

## **B121A FRONT FOG LAMP LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# B121A FRONT FOG LAMP LH POWER SUPPLY CIRCUIT

**DTC** Logic INFOID:0000000012423002

#### DTC DETECTION LOGIC

| DTC   | Display Item                                          | Malfunction detected condition | Possible causes              |
|-------|-------------------------------------------------------|--------------------------------|------------------------------|
| B121A | FR FOG LAMP LH PWR SPLY CIRC<br>[CIRC SHORT TO GROUND | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

- 1. Turn ignition switch ON.
- Perform "Self Diagnostic Result".

#### Is DTC B121A detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-97, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK FOG LAMP SHORT CIRCUIT TO GROUND

- Disconnect fog lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E217      | 51       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.check fog Lamp short circuit to ground

- Reconnect IPDM E/R connector.
- Check continuity between fog lamp harness connector and ground.

| Fog lamp |        |          |        | Continuity |
|----------|--------|----------|--------|------------|
| Conr     | nector | Terminal | Ground | Continuity |
| LH       | E222   | 1        |        | No         |

#### Is the inspection result normal?

YES

>> Refer to <u>GI-45</u>, "<u>Intermittent Incident</u>". >> Replace IPDM E/R. Refer to <u>PCS-44</u>, "<u>Removal and Installation</u>". NO

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## **B1231 DAYTIME RUNNING LIGHT RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# B1231 DAYTIME RUNNING LIGHT RH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                  | Malfunction detected condition                                                  | Possible causes              |
|-------|-----------------------------------------------|---------------------------------------------------------------------------------|------------------------------|
| B1231 | DTRL RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | When a short circuit to ground in the daytime running lamp circuit is detected. | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B1231 detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-98">EXL-98</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423005

# 1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          |        | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | Ground | Continuity |
| E218      | 58       |        | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |        |          | Continuity |            |
|------------------------|--------|----------|------------|------------|
| Con                    | nector | Terminal | Ground     | Continuity |
| RH                     | E234   | 10       |            | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

## **B1256 FRONT FOG LAMP RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# B1256 FRONT FOG LAMP RH POWER SUPPLY CIRCUIT

**DTC** Logic INFOID:0000000012423006

#### DTC DETECTION LOGIC

| DTC   | Display Item                                      | Malfunction detected condition              | Possible causes              |
|-------|---------------------------------------------------|---------------------------------------------|------------------------------|
| B1256 | FR FOG LAMP RH PWR SPLY CIRC [CIRC SHORT TO GRND] | When a short circuit to ground is detected. | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

1. Turn ignition switch ON.

Perform "Self Diagnostic Result".

#### Is DTC B1256 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-99, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK FOG LAMP SHORT CIRCUIT TO GROUND

- Disconnect fog lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E218      | 57       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.check fog Lamp short circuit to ground

- Reconnect IPDM E/R connector.
- Check continuity between fog lamp harness connector and ground.

| Fog lamp |        |          |        | Continuity |
|----------|--------|----------|--------|------------|
| Conr     | nector | Terminal | Ground | Continuity |
| RH       | E221   | 1        |        | No         |

#### Is the inspection result normal?

YES

>> Refer to <u>GI-45</u>, "<u>Intermittent Incident</u>". >> Replace IPDM E/R. Refer to <u>PCS-44</u>, "<u>Removal and Installation</u>". NO

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## **B20CB DAYTIME RUNNING LIGHT LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# B20CB DAYTIME RUNNING LIGHT LH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                  | Malfunction detected condition              | Possible causes              |
|-------|-----------------------------------------------|---------------------------------------------|------------------------------|
| B02CB | DTRL LH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | When a short circuit to ground is detected. | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B02CB detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-100">EXL-100</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423009

# 1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          |        | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | Ground | Continuity |
| E217      | 49       |        | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between fog lamp harness connector and ground.

| Front combination lamp |        |          |        | Continuity |
|------------------------|--------|----------|--------|------------|
| Con                    | nector | Terminal | Ground | Continuity |
| LH                     | E236   | 10       |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

## **B20CE HEADLAMP (HI) LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# B20CE HEADLAMP (HI) LH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                  | Malfunction detected condition | Possible causes              |
|-------|-----------------------------------------------|--------------------------------|------------------------------|
| B20CE | DTRL LH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20CE detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-101">EXL-101</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          |        | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | Ground | Continuity |
| E218      | 59       |        | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2 .CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |        |          |        | Continuity |
|------------------------|--------|----------|--------|------------|
| Coni                   | nector | Terminal | Ground | Continuity |
| LH                     | E236   | 15       |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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## **B20CF HEADLAMP (HI) RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# B20CF HEADLAMP (HI) RH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                     | Malfunction detected condition | Possible causes              |
|-------|--------------------------------------------------|--------------------------------|------------------------------|
| B20CF | HL (HI) RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20CF detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-102">EXL-102</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423013

# 1. CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          |        | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | Ground | Continuity |
| E217      | 54       |        | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |        |          |        | Continuity |
|------------------------|--------|----------|--------|------------|
| Con                    | nector | Terminal | Ground | Continuity |
| RH                     | E234   | 15       |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

## **B20D0 HEADLAMP (LO) LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# B20D0 HEADLAMP (LO) LH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                     | Malfunction detected condition | Possible causes              |
|-------|--------------------------------------------------|--------------------------------|------------------------------|
| B20D0 | HI (LO) RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20D0 detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-103">EXL-103</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E217      | 50       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |        |          |        | Continuity |
|------------------------|--------|----------|--------|------------|
| Conr                   | nector | Terminal | Ground | Continuity |
| LH                     | E235   | 4        |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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## **B20D1 HEADLAMP (LO) RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# B20D1 HEADLAMP (LO) RH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                     | Malfunction detected condition | Possible causes              |
|-------|--------------------------------------------------|--------------------------------|------------------------------|
| B20D1 | HL (LO) RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20D1 detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-104">EXL-104</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423017

# 1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          |        | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | Ground | Continuity |
| E218      | 62       |        | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between fog lamp harness connector and ground.

| Front combination lamp |        |          |        | Continuity |
|------------------------|--------|----------|--------|------------|
| Con                    | nector | Terminal | Ground | Continuity |
| RH                     | E233   | 4        |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

## **B20D2 PARKING LAMP POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

## B20D2 PARKING LAMP POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                      | Malfunction detected condition                                               | Possible causes |
|-------|---------------------------------------------------|------------------------------------------------------------------------------|-----------------|
| B20D2 | PARKING LAMP PWR SPLY CIRC [CIRC SHORT TO GROUND] | When a short to ground is detected in the parking lamp power supply circuit. | Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20D2 detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-105">EXL-105</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

 ${f 1}.$ CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connectors and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R |        |          | Continuity |    |
|----------|--------|----------|------------|----|
| Con      | nector | Terminal | Ground     |    |
| LH       | E217   | 56       | Ground     | No |
| RH       | E218   | 61       |            |    |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between front combination lamp harness connector and ground.

|    | IPDM E/R                   |          |        | Continuity | M   |
|----|----------------------------|----------|--------|------------|-----|
| C  | onnector                   | Terminal |        |            | 171 |
|    | E236<br>(parking lamp)     | 12       |        |            | N   |
| LH | E235<br>(side marker lamp) | 9        | Ground | No         |     |
| DU | E234<br>(parking lamp      | 12       |        |            | 0   |
| RH | E233<br>(side marker lamp) | 9        |        |            | D   |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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Revision: September 2015 **EXL-105** 2016 Rogue NAM

#### **B20D4 TAIL LAMP LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

## B20D4 TAIL LAMP LH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                       | Malfunction detected condition | Possible causes              |
|-------|----------------------------------------------------|--------------------------------|------------------------------|
| B20D4 | TAIL LAMP LH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20D4 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-106, "Diagnosis Procedure".

NO >> Inspection End.

## Diagnosis Procedure

INFOID:0000000012423021

# 1. CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect rear combination lamp (LH), license plate lamps, back up lamp connectors and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          |        | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | Ground | Continuity |
| E119      | 4        |        | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between rear combination lamp harness connector and ground.

| Rear combination lamp |     |          |        | Continuity |
|-----------------------|-----|----------|--------|------------|
| Connector             |     | Terminal | Ground | Continuity |
| LH                    | B90 | 1        |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

## **B20D5 TAIL LAMP RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[HALOGEN HEADLAMP]

# **B20D5 TAIL LAMP RH POWER SUPPLY CIRCUIT**

**DTC Logic** INFOID:0000000012423022

#### DTC DETECTION LOGIC

| DTC   | Display Item                                    | Malfunction detected condition                                                      | Possible causes              |
|-------|-------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|
| B20D5 | TAIL LAMP RH PWR SPLY CIRC [CIRC SHORT TO GRND] | When a short circuit to ground is detected in the tail lamp supply voltage circuit. | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

- 1. Turn ignition switch ON.
- Perform "Self Diagnostic Result".

#### Is DTC B20D5 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-107, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

- Disconnect rear combination lamp (RH), back up lamp connectors and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E119      | 17       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

- Reconnect IPDM E/R connector.
- Check continuity between rear combination lamp harness connector and ground.

| Rear combination lamp |      |          |        | Continuity |
|-----------------------|------|----------|--------|------------|
| Connector             |      | Terminal | Ground | Continuity |
| RH                    | B102 | 1        |        | No         |

#### Is the inspection result normal?

YES

>> Refer to <u>GI-45</u>, "<u>Intermittent Incident</u>". >> Replace IPDM E/R. Refer to <u>PCS-44</u>, "<u>Removal and Installation</u>". NO

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[HALOGEN HEADLAMP]

# SYMPTOM DIAGNOSIS

# **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

Symptom Table

#### **CAUTION:**

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

| Symp                                                                  | otom       | Possible cause                                                                                                                                                                                                                      | Inspection item                                                                                                                                                                                                                 |  |
|-----------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Headlamp (HI) is not turned ON.                                       | One side   | <ul> <li>Fuse</li> <li>Halogen bulb (HI)</li> <li>Harness between IPDM E/R and headlamp (HI)</li> <li>Harness between headlamp (HI) and ground</li> <li>IPDM E/R</li> <li>Headlamp (HI) circuit Refer to EXL-101. "DTC L</li> </ul> |                                                                                                                                                                                                                                 |  |
| turrieu ON.                                                           | Both sides | Symptom diagnosis "BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON" Refer to EXL-101, "DTC Logic" (LH) or EXL-102, "DTC Logic" (RH).                                                                                                     | or EXL-102, "DTC Logic" (RH).                                                                                                                                                                                                   |  |
| High beam indicator lamp<br>[Headlamp (HI) is turned C                |            | Combination meter                                                                                                                                                                                                                   | Combination meter     "Data Monitor" "HI-BEAM IND"     BCM (HEAD LAMP)     "Active Test" "HEADLAMP"                                                                                                                             |  |
| Headlamp (LO) is not turned ON.                                       | One side   | Fuse     Halogen bulb (LO)     Harness between IPDM E/R and headlamp lamp (LO)     Harness between headlamp (LO) and ground     IPDM E/R                                                                                            | Headlamp (LO) circuit Refer to EXL-103, "DTC Logic" (LH) or EXL-104, "DTC Logic" (RH).                                                                                                                                          |  |
|                                                                       | Both sides | Symptom diagnosis "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-103, "DTC Logic" (LH) or EXL-104, "DTC Logic" (RH).                                                                                                     |                                                                                                                                                                                                                                 |  |
| Each lamp is not turned ON/OFF with lighting switch AUTO.             |            | Combination switch     Harness between combination switch and BCM     BCM                                                                                                                                                           | Combination switch Refer to BCS-74, "Symptom Table" (with Intelligent Key system) or BCS-135, "Symptom Table" (without Intelligent Key system).                                                                                 |  |
|                                                                       |            | Optical sensor     Harness between optical sensor and BCM     BCM                                                                                                                                                                   | Optical sensor Refer to EXL-88, "Component Function Check".                                                                                                                                                                     |  |
| Daytime running light is not turned ON. [Headlamp (HI) is turned ON.] |            | Fuse Harness between IPDM E/R and front combination lamp IPDM E/R BCM ECM Combination meter                                                                                                                                         | Daytime running light circuit Refer to EXL-98, "DTC Logic".     BCM (HEADLAMP)     "Data Monitor" "ENGINE STATE"     Combination meter     "Data Monitor" "PKB SW"     BCM (HEADLAMP)     "Active Test" "DAYTIME RUNNING LIGHT" |  |
| Parking lamp is not turned ON.                                        |            | Fuse     Parking lamp bulb     Harness between IPDM E/R     and front combination lamp     IPDM E/R                                                                                                                                 | Parking lamp circuit Refer to EXL-105, "DTC Logic".                                                                                                                                                                             |  |

### **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

[HALOGEN HEADLAMP]

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| Symp                                                                                                                                            | otom                                                                                            | Possible cause                                                                                                                                             | Inspection item                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Front side marker lamp is not turned ON.                                                                                                        |                                                                                                 | Front side marker lamp bulb     Harness between IPDM E/R     and front side marker lamp     Harness between front side marker lamp and ground     IPDM E/R | Front side marker lamp circuit Refer to EXL-105, "DTC Logic".                                                          |
| License plate lamp is not to                                                                                                                    | urned ON.                                                                                       | License plate lamp bulb     Harness between IPDM E/R     and license plate lamp     Harness between license plate lamp and ground                          | License plate lamp circuit Refer to EXL-106, "DTC Logic".                                                              |
| Parking lamp, side marker cense plate lamp are not to                                                                                           |                                                                                                 | Symptom diagnosis "PARKING, SIDE MARKER, LICEN NOT TURNED ON" Refer to EXL-105, "DTC Logic".                                                               | NSE PLATE AND TAIL LAMPS ARE                                                                                           |
| Tail lamp indicator is not tu<br>(Exterior lamps are turned                                                                                     |                                                                                                 | Combination meter                                                                                                                                          | Combination meter     "Data Monitor" "LIGHT IND"     BCM (HEADLAMP)     "Active Test" "TAIL LAMP"                      |
| Turn signal lamp does not<br>blink.                                                                                                             | Indicator lamp is nor-<br>mal.<br>(Applicable side per-<br>forms high flasher acti-<br>vation.) | Turn signal lamp bulb Door mirror Harness between BCM and each turn signal lamp Harness between each turn signal lamp and ground                           | Turn signal lamp circuit Refer to EXL-93, "Component Function Check".                                                  |
|                                                                                                                                                 | One side                                                                                        | Combination meter                                                                                                                                          | _                                                                                                                      |
| Turn signal indicator lamp                                                                                                                      | Both sides<br>(Always)                                                                          | Turn signal indicator lamp signal BCM Combination meter                                                                                                    | Combination meter     "Data Monitor" "TURN IND"     BCM (FLASHER)     "Active Test" "FLASHER"                          |
| (Turn signal lamp is nor-<br>mal.)                                                                                                              | Both sides (Only when activating hazard warning lamp with ignition switch OFF)                  | Combination meter power supply and ground circuit     Combination meter                                                                                    | Combination meter Power supply and ground circuit Refer to MWI-60, "COMBINATION METER: Diagnosis Procedure".           |
| <ul> <li>Hazard warning lamp does not activate.</li> <li>Hazard warning lamp continues activating.</li> <li>(Turn signal is normal.)</li> </ul> |                                                                                                 | Hazard switch     Harness between hazard switch and BCM     Harness between hazard switch and ground     BCM                                               | Hazard switch circuit Refer to EXL-91, "Component Function Check".                                                     |
| Front fog lamp is not turned ON.                                                                                                                | One side                                                                                        | Front fog lamp bulb     Harness between IPDM E/R     and front fog lamp     Harness between front fog lamp     and ground     IPDM E/R                     | Front fog lamp circuit Refer to <u>EXL-97</u> , " <u>DTC Logic</u> " (LH or <u>EXL-99</u> , " <u>DTC Logic</u> " (RH). |
|                                                                                                                                                 | Both sides                                                                                      | Symptom diagnosis "BOTH SIDE FRONT FOG LAMPS Refer to EXL-97, "DTC Logic" (LH)                                                                             |                                                                                                                        |

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### NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[HALOGEN HEADLAMP]

## NORMAL OPERATING CONDITION

Description INFOID:000000012423025

### **AUTO LIGHT SYSTEM**

The headlamp may not be turned ON/OFF immediately after passing dark area or bright area (short tunnel, sky bridge, shadowed area, etc.) while using the auto light system. This is caused by the control difference. This is normal.

### **BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON**

< SYMPTOM DIAGNOSIS >

[HALOGEN HEADLAMP]

## BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description INFOID:000000012423026

Both side headlamps (HI) are not turned ON when setting to the lighting switch HI or PASS.

## Diagnosis Procedure

# 1.combination switch inspection

Check combination switch. Refer to <u>BCS-74, "Symptom Table"</u> (with Intelligent Key system) or <u>BCS-135, "Symptom Table"</u> (without Intelligent Key system).

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

## 2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

### **(P)CONSULT DATA MONITOR**

- Select "HEADLAMP (HI)" in "Data Monitor" of "IPDM E/R".
- 2. With operating the lighting switch, check the monitor status.

| Monitor item   | Condition       |            | Monitor status |
|----------------|-----------------|------------|----------------|
| HEADLAMP (HI)  | Lighting switch | HI or PASS | On             |
| HEADLAMP (III) | (2ND)           | LO         | Off            |

### Is the inspection result normal?

YES >> GO TO 3.

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

## 3.HEADLAMP (HI) CIRCUIT INSPECTION

Check headlamp (HI) circuit. Refer to <u>EXL-101</u>, "<u>DTC Logic</u>" (LH) or <u>EXL-102</u>, "<u>DTC Logic</u>" (RH). Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace the malfunctioning part.

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## **BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON**

< SYMPTOM DIAGNOSIS >

[HALOGEN HEADLAMP]

## BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description INFOID:000000012423028

Both side headlamps (LO) are not turned ON in any condition.

### Diagnosis Procedure

INFOID:0000000012423029

## 1. CHECK COMBINATION SWITCH

Check combination switch. Refer to <u>BCS-74, "Symptom Table"</u> (with Intelligent Key system) or <u>BCS-135, "Symptom Table"</u> (without Intelligent Key system).

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2. CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

### (P)CONSULT DATA MONITOR

- Select "HEADLAMP (LO)" in "Data Monitor" of "IPDM E/R".
- 2. With operating the lighting switch, check the monitor status.

| Monitor item  | Condition       |     | Monitor status |
|---------------|-----------------|-----|----------------|
| HEADLAMP (LO) | Lighting switch | 2ND | On             |
|               | Lighting Switch | OFF | Off            |

#### Is the inspection result normal?

YES >> GO TO 3.

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

## 3.HEADLAMP (LO) CIRCUIT INSPECTION

Check headlamp (LO) circuit. Refer to <u>EXL-103, "DTC Logic"</u> (LH) or <u>EXL-104, "DTC Logic"</u> (RH). <u>Is the inspection result normal?</u>

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace the malfunctioning part.

# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON

### < SYMPTOM DIAGNOSIS >

[HALOGEN HEADLAMP]

# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON

Description INFOID.0000000012423030

The parking, license plate, side marker, tail lamps and each illumination are not turned ON in any condition.

### Diagnosis Procedure

## 1. COMBINATION SWITCH INSPECTION

Check combination switch. Refer to <u>BCS-74, "Symptom Table"</u> (with Intelligent Key system) or <u>BCS-135, "Symptom Table"</u> (without Intelligent Key system).

### Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

## 2. CHECK TAIL LAMP REQUEST SIGNAL INPUT

### (P)CONSULT DATA MONITOR

- 1. Select "TAIL LAMP" in "Data Monitor" of "IPDM E/R".
- 2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition       |     | Monitor status |
|--------------|-----------------|-----|----------------|
| TAIL LAMP    | Lighting owitch | 1ST | On             |
|              | Lighting switch | OFF | Off            |

### Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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

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### BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[HALOGEN HEADLAMP]

### BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:000000012423032

The front fog lamps are not turned ON in any condition.

### Diagnosis Procedure

INFOID:0000000012423033

## 1. CHECK COMBINATION SWITCH

Check combination switch. Refer to <u>BCS-74</u>, "Symptom Table" (with Intelligent Key system) or <u>BCS-135</u>, "Symptom Table" (without Intelligent Key system).

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning part.

## 2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

### **®CONSULT DATA MONITOR**

- 1. Select "FRONT FOG LAMP REQ" in "Data Monitor" of "IPDM E/R".
- 2. With operating the front fog lamp switch, check the monitor status.

| Monitor item       | Condition                  |     | Monitor status |
|--------------------|----------------------------|-----|----------------|
| FRONT FOG LAMP REQ | Front fog lamp switch      | ON  | On             |
| TRONTTOO LAWI REQ  | (With lighting switch 2ND) | OFF | Off            |

### Is the item status normal?

YES >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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

### **HEADLAMP AIMING ADJUSTMENT**

< PERIODIC MAINTENANCE >

[HALOGEN HEADLAMP]

## PERIODIC MAINTENANCE

### HEADLAMP AIMING ADJUSTMENT

Inspection BINFOID:0000000012423034

### PREPARATION BEFORE ADJUSTING

Before performing aiming adjustment, check the following:

- Make sure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Make sure there is no load in vehicle other than the driver (or equivalent weight placed in driver's position).
- Coolant and engine oil filled to correct level, and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- · Confirm spare tire, jack and tools are properly stowed.
- · Carefully wipe off any dirt from headlamp lens.

#### **CAUTION:**

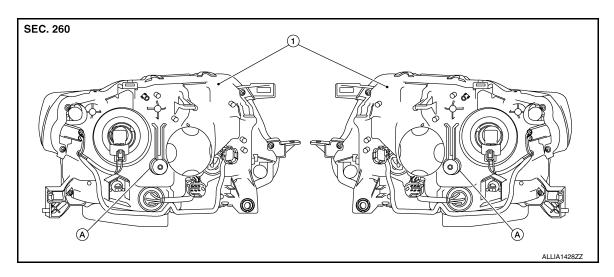
### Do not use organic solvent (thinner, gasoline etc.)

- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight ahead position.
- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.

#### NOTE:

- For headlamp aiming details, refer to regulations in your area.
- By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.
- · Use adjusting screw to perform aiming adjustment.
- · Perform headlamp aiming if:
- The vehicle front body has been repaired;
- The front combination lamp has been removed or replaced;
- Any outfitting has been installed;
- The vehicle's standard load condition has been substantially increased.

#### AIMING ADJUSTMENT SCREW



1. Front combination lamp (view from rear)

 A. Headlamp HI/LO (UP/DOWN) adjustment screw

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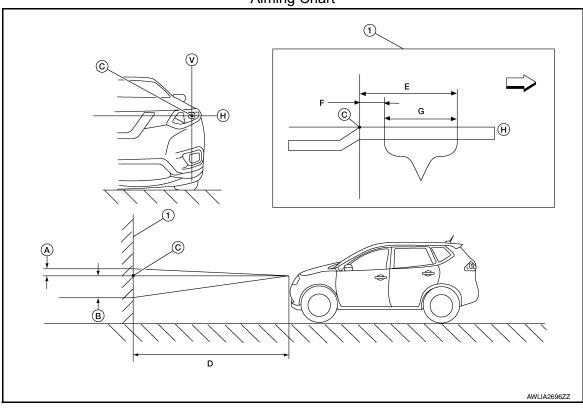
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[HALOGEN HEADLAMP]

## Aiming Adjustment Procedure

Aiming Chart



- 1. Adjustment screen
- C. Headlamp bulb center (H-V point)
- Minimum aim evaluation distance from vertical center on aiming screen 133 mm (1°R)
- V. Vertical aiming evaluation line
- A. Highest cutoff line height
- D. Distance of headlamp aiming screen from vehicle 7.62 m (25 ft)
  - Corcert from verticie 7.02 fff (2)
  - Aim evaluation area
- B. Lowest cutoff line height
- Maximum aim evaluation distance from vertical center on aiming screen 399 mm (3°R)
- H. Horizontal aiming evaluation line

| A (Highest cutoff line height) | 13.3 mm (0.5 in) | 0.1° up   |
|--------------------------------|------------------|-----------|
| B (Lowest cutoff line height)  | 53.2 mm (2.1 in) | 0.4° down |

< ☐ Right

#### LOW BEAM AND HIGH BEAM

#### NOTE:

- · Basic illuminating area for evaluation and/or adjustment should be within range shown on aiming chart.
- Use adjustment screw to perform aiming adjustment.
  - · Ensure fog lamps are turned off.
- Block the opposite headlamp from projecting a beam pattern onto the adjustment screen, using a suitable object. Aim each headlamp individually.

#### **CAUTION:**

Do not cover the lens surface with a tape etc. The lens is made of resin.

3. Place the screen on the same level and flat surface as the vehicle.

#### NOTE:

- Surface should be free of any debris that would cause a difference between the headlamp center and the adjustment screen.
- Face the front of the vehicle to the screen and measure distance between the headlamp center and the screen surface.

### **HEADLAMP AIMING ADJUSTMENT**

### < PERIODIC MAINTENANCE >

[HALOGEN HEADLAMP]

| Distance between | the headlam | p center and the screen ( | (D | ) : 7.62 m ( | 25 ft) |
|------------------|-------------|---------------------------|----|--------------|--------|
|------------------|-------------|---------------------------|----|--------------|--------|

- 5. Start the engine. Turn the headlamp on.
- 6. Determine the preferred vertical aim range dimensions, using the aiming chart.
- 7. Measure the projected beam within the aim evaluation segment on the screen.
- 8. Adjust the beam pattern of each headlamp until the aim evaluation segment (the area relative to both the highest and lowest cutoff line height) is positioned within the vertical aim range dimensions shown on the aiming chart.

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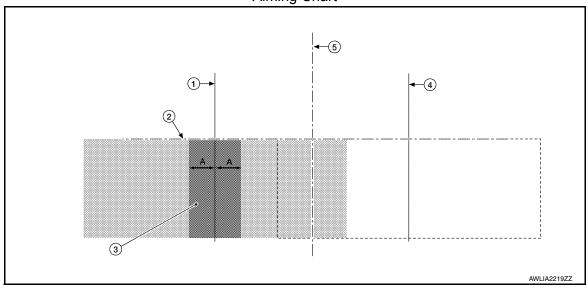
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### FRONT FOG LAMP AIMING ADJUSTMENT

## Aiming Adjustment Procedure

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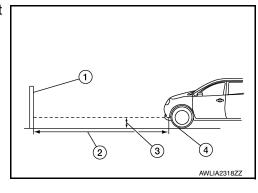
### Aiming Chart



- Vertical center line of front fog lamp (LH)
- 4. Vertical center line of front fog lamp (RH)
- Lamp center above ground
- Vertical center axis
- Front fog lamp high intensity area (LH)
- A. 100mm (4in)

#### NOTE:

- (LH) Front fog lamp aiming specifications shown, (RH) similar.
- Check the following conditions before performing the aiming adjustment.
- Keep all tires inflated to correct pressure.
- Place vehicle on level ground.
- See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have the driver or equivalent weight placed in driver seat.
- When performing adjustment, if necessary, cover the headlamps and opposite front fog lamp.
- 1. Set the distance between the screen and the center of the front fog lamp lens as shown.
  - (1) Aiming screen or a matte white surface
  - (2) 7.62 m (25 ft)
  - (3) Floor to center of front fog lamp lens
  - (4) Floor



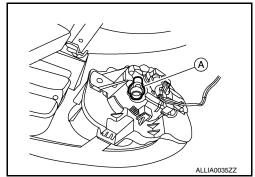
Turn front fog lamps ON.

### FRONT FOG LAMP AIMING ADJUSTMENT

### < PERIODIC MAINTENANCE >

### [HALOGEN HEADLAMP]

 Access adjusting screw (A) from underneath front bumper fascia. Adjust front fog lamps using adjusting screw so that the top edge of the high intensity zone is at the front fog lamp centers above ground.



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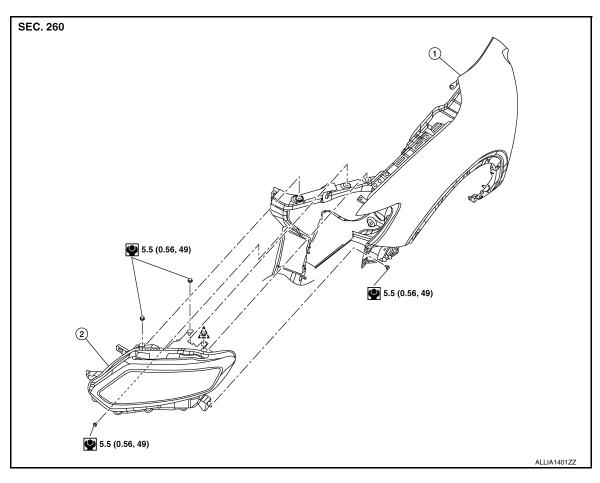
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# REMOVAL AND INSTALLATION

### FRONT COMBINATION LAMP

Exploded View



1. Front fender

Front combination lamp

,^∖ Clip

### Removal and Installation

REMOVAL

- 1. Remove front bumper fascia. Refer to EXT-16, "Exploded View".
- 2. Remove front combination lamp bolts and clip.
- 3. Pull front combination lamp forward.
- 4. Disconnect the harness connectors from the front combination lamp and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

#### NOTE:

After installation, perform headlamp aiming adjustment. Refer to EXL-115, "Inspection".

### **Bulb Replacement**

INFOID:0000000012423039

INFOID:0000000012423038

### **WARNING:**

Do not touch bulb by hand while it is lit or right after being turned off. Burning may result. **CAUTION**:

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

### FRONT COMBINATION LAMP

### < REMOVAL AND INSTALLATION >

[HALOGEN HEADLAMP]

Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

HEADLAMP (LOW BEAM) BULB

Removal

- 1. Rotate the bulb counterclockwise and remove from the front combination lamp.
- 2. Disconnect the harness connector from bulb and remove.

Installation

Installation is in the reverse order of removal.

**CAUTION:** 

After installing the bulb, install the bulb socket securely for watertightness.

HEADLAMP (HIGH BEAM) BULB

Removal

- 1. Remove plastic cover.
- 2. Rotate the bulb counterclockwise and remove from the front combination lamp.
- Disconnect the harness connector from bulb and remove.

Installation

Installation is in the reverse order of removal.

**CAUTION:** 

After installing the bulb, install the bulb socket securely for watertightness.

SIDE MARKER LAMP BULB

Removal

- 1. Rotate the bulb counterclockwise and remove from the front combination lamp.
- 2. Remove the bulb from the bulb socket.

Installation

Installation is in the reverse order of removal.

**CAUTION:** 

After installing the bulb, install the bulb socket securely for watertightness.

TURN SIGNAL LAMP BULB

Removal

- Rotate bulb socket counterclockwise and remove from the front combination lamp.
- 2. Remove the bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

**CAUTION:** 

After installing the bulb, install the bulb socket securely for watertightness.

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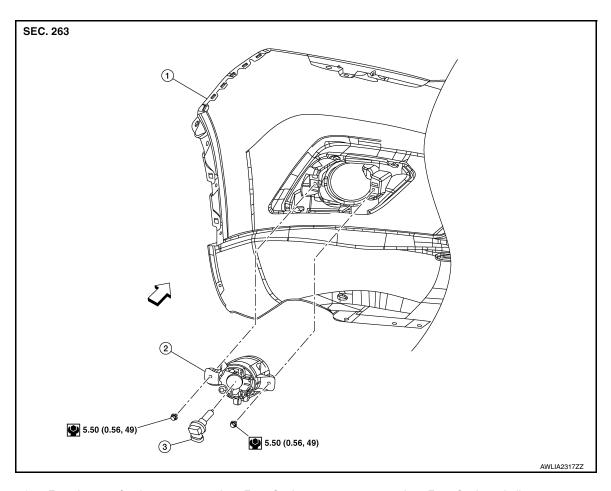
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### FRONT FOG LAMP

**Exploded View** INFOID:0000000012423040



- 1. Front bumper fascia
- Front fog lamp
- Front fog lamp bulb

### Removal and Installation

< > Front

INFOID:0000000012423041

### **REMOVAL**

- Partially remove front fender protector. Refer to <u>EXT-29</u>, "<u>FENDER PROTECTOR</u>: <u>Exploded View</u>".
- Disconnect the harness connector from the front fog lamp.
- Remove front fog lamp bolts and front fog lamp.

### INSTALLATION

Installation in the reverse order of removal.

#### NOTE:

After installation, perform front fog lamp aiming adjustment. Refer to EXL-118, "Aiming Adjustment Procedure".

## **Bulb Replacement**

INFOID:0000000012423042

#### **WARNING:**

Do not touch bulb by hand while it is lit or right after being turned off. Burning may result. **CAUTION:** 

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

### FRONT FOG LAMP

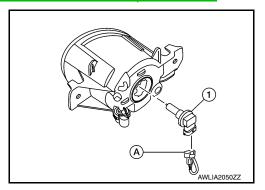
### < REMOVAL AND INSTALLATION >

[HALOGEN HEADLAMP]

• Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

### REMOVAL

- 1. Partially remove front fender protector. Refer to EXT-29, "FENDER PROTECTOR: Exploded View".
- 2. Disconnect the harness connector (A) from the front fog lamp.
- 3. Rotate bulb (1) counterclockwise and remove.



### **INSTALLATION**

Installation is in the reverse order of removal.

#### CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

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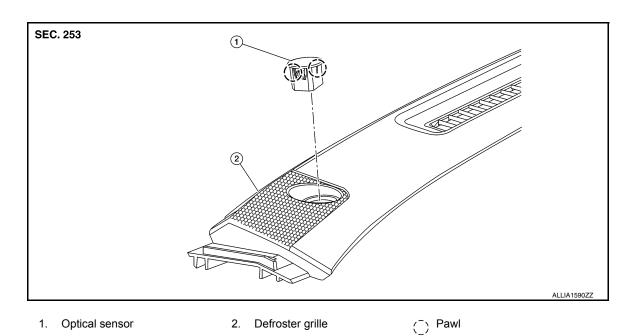
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## **OPTICAL SENSOR**

Exploded View

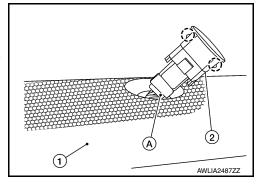


### Removal and Installation

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### **REMOVAL**

- 1. Release the optical sensor (2) pawls from defroster grille (1) using a suitable tool.
  - (\_): Pawl
- 2. Disconnect the harness connector (A) from the optical sensor (2) and remove.



### **INSTALLATION**

Installation is in the reverse order of removal.

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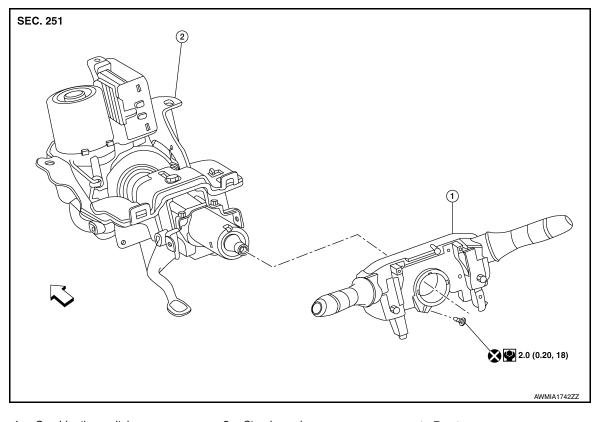
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## **COMBINATION SWITCH**

Exploded View



Combination switch

2. Steering column

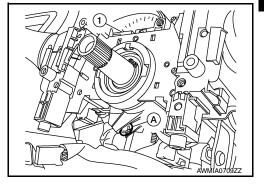
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### Removal and Installation

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### **REMOVAL**

- 1. Remove the steering angle sensor. Refer to <u>BRC-189</u>, "Removal and Installation".
- 2. Disconnect harness connector from combination switch.
- 3. Remove screw (A) and combination switch (1).



### **INSTALLATION**

Installation is in the reverse order of removal.

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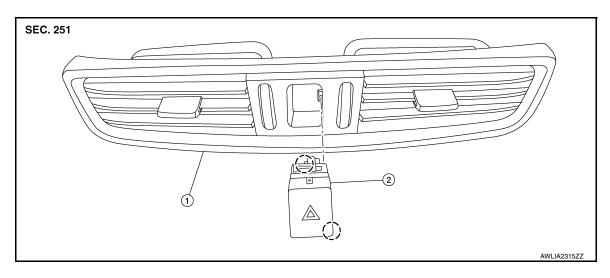
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## **HAZARD SWITCH**

Exploded View



1. Center ventilator grille

2. Hazard switch

( Pawl

### Removal and Installation

INFOID:0000000012423048

### **REMOVAL**

- 1. Remove center ventilator grille. Refer to <u>VTL-13, "CENTER VENTILATOR GRILLE : Removal and Installation"</u>.
- 2. Release the pawls and remove the hazard switch.

### **INSTALLATION**

Installation is in the reverse order of removal.

### SIDE TURN SIGNAL LAMP

< REMOVAL AND INSTALLATION >

[HALOGEN HEADLAMP]

### SIDE TURN SIGNAL LAMP

### Removal and Installation

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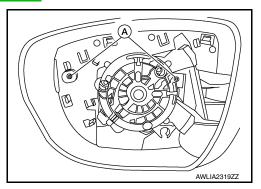
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### **REMOVAL**

- 1. Remove door mirror rear finisher. Refer to MIR-26, "Removal and Installation".
- 2. Remove door mirror glass. Refer to MIR-24, "Removal and Installation".
- 3. Remove the screws (A) and reposition side turn signal lamp.



4. Disconnect the harness connector from the side turn signal lamp and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

### **Bulb Replacement**

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The side turn signal lamp bulb is not serviced separately. Refer to EXL-127, "Removal and Installation".

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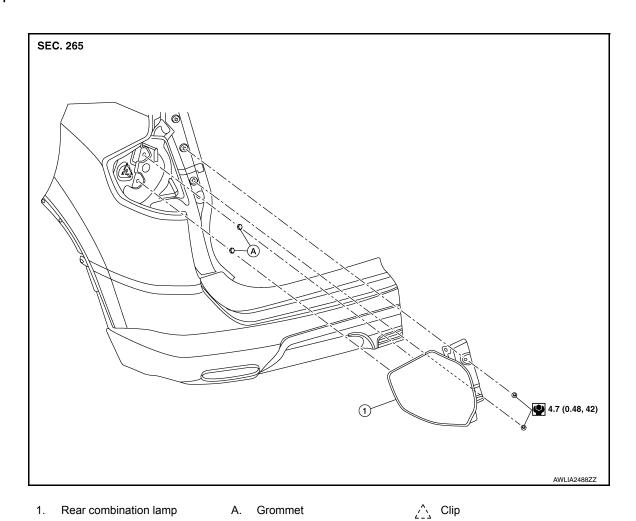
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### REAR COMBINATION LAMP

Exploded View



### Removal and Installation

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#### **REMOVAL**

- Remove side air spoiler. Refer to <u>EXT-48</u>, "Removal and Installation".
- 2. Remove rear combination lamp bolts.
- 3. Pull rear combination lamp rearward to release from clip and locators.
- 4. Disconnect the harness connector from the rear combination lamp and remove.

### **INSTALLATION**

Installation is in the reverse order of removal.

### Bulb Replacement

INFOID:0000000012423053

#### **WARNING:**

Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result. CAUTION:

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

### STOP LAMP BULB

### **REAR COMBINATION LAMP**

### < REMOVAL AND INSTALLATION >

[HALOGEN HEADLAMP]

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#### Removal

- Remove rear combination lamp. Refer to <u>EXL-128</u>, "Removal and Installation".
- 2. Rotate stop lamp bulb socket counterclockwise and remove.
- 3. Remove stop lamp bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install bulb socket securely for watertightness.

#### TAIL LAMP BULB

#### Removal

- Remove rear combination lamp. Refer to <u>EXL-128</u>, "Removal and Installation".
- Rotate tail lamp bulb socket counterclockwise and remove.
- 3. Remove tail lamp bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install bulb socket securely for watertightness.

### TURN SIGNAL LAMP BULB

#### Removal

- Remove rear combination lamp. Refer to EXL-128, "Removal and Installation".
- Rotate turn signal lamp bulb socket counterclockwise and remove.
- 3. Remove turn signal lamp bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install bulb socket securely for watertightness.

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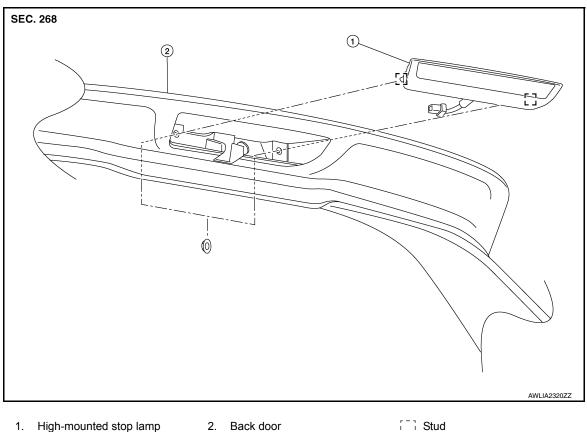
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## **HIGH-MOUNTED STOP LAMP**

**Exploded View** INFOID:0000000012423054



2. Back door

[ ] Stud

### Removal and Installation

### **REMOVAL**

- Remove access cover using a suitable tool. Refer to INT-38, "Exploded View".
- Remove high-mounted stop lamp nuts.
- Disconnect the harness connector from high-mounted stop lamp and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

## **Bulb Replacement**

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### HIGH-MOUNTED STOP LAMP BULB

The high-mounted stop lamp bulb is not serviced separately. Refer to EXL-130, "Removal and Installation".

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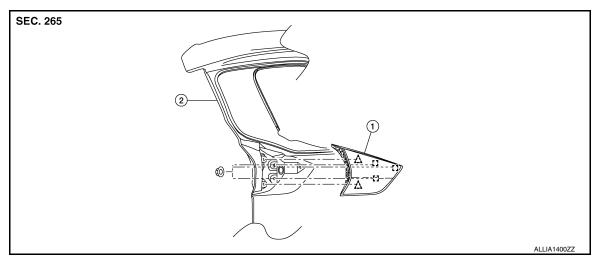
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### **BACK-UP LAMP ASSEMBLY**

**Exploded View** INFOID:0000000012423057



Back-up lamp assembly

Back door

,^ Clip

Stud

### Removal and Installation

## REMOVAL

- Remove back door finisher. Refer to <u>INT-38</u>, "Removal and Installation".
- Remove back-up lamp assembly nuts.
- Pull back-up lamp assembly rearward, disconnect the harness connector and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

### Bulb Replacement

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INFOID:0000000012423058

#### WARNING:

Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result. **CAUTION:** 

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### TAIL LAMP BULB

#### Removal

- Remove back-up lamp assembly. Refer to <u>EXL-131</u>, "Removal and Installation".
- Rotate tail lamp bulb socket counterclockwise and remove.
- Remove tail lamp bulb from bulb socket. 3.

#### Installation

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install bulb socket securely for watertightness.

### **BACK-UP LAMP BULB**

Removal

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### **BACK-UP LAMP ASSEMBLY**

### < REMOVAL AND INSTALLATION >

[HALOGEN HEADLAMP]

- Remove back-up lamp assembly. Refer to <u>EXL-131, "Removal and Installation"</u>.
- 2. Rotate back-up lamp bulb socket counterclockwise and remove.
- 3. Remove back-up lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

**CAUTION:** 

After installing the bulb, install bulb socket securely for watertightness.

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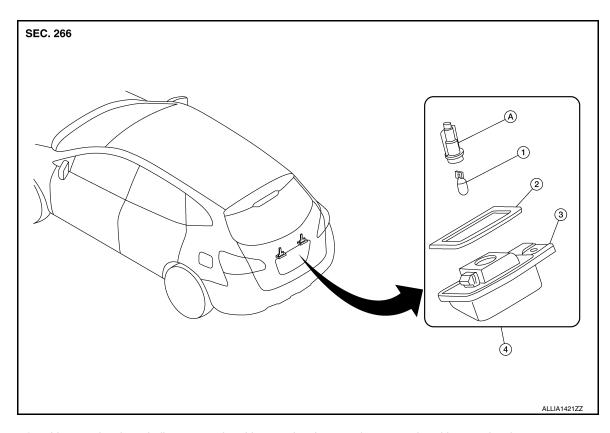
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### LICENSE PLATE LAMP

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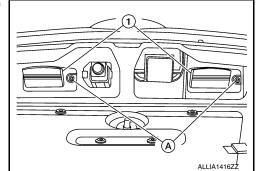


- License plate lamp bulb
- License plate lamp assembly
- License plate lamp seal
- License plate lamp bulb socket
- License plate lamp

### Removal and Installation

### **REMOVAL**

- 1. Release the license lamp finisher. Refer to EXT-50, "Exploded View".
- Remove the screw (A) (LH or RH) and pull license plate lamp (1) (LH or RH) downward.



Disconnect the harness connector from the license plate lamp and remove.

### INSTALLATION

Installation is in the reverse order of removal.

## **Bulb Replacement**

### **WARNING:**

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

**EXL-133** Revision: September 2015 2016 Rogue NAM **EXL** 

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### LICENSE PLATE LAMP

### < REMOVAL AND INSTALLATION >

[HALOGEN HEADLAMP]

#### **CAUTION:**

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### REMOVAL

- 1. Remove license plate lamp. Refer to EXL-133, "Removal and Installation".
- 2. Rotate license plate lamp bulb socket counterclockwise and remove.
- 3. Remove license plate lamp bulb from bulb socket.

#### INSTALLATION

Installation is in the reverse order of removal.

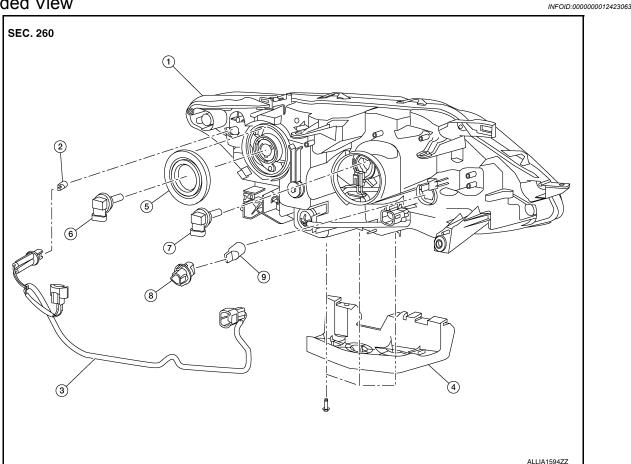
#### **CAUTION:**

After installing the bulb, install the bulb socket securely for watertightness.

## UNIT DISASSEMBLY AND ASSEMBLY

### FRONT COMBINATION LAMP

**Exploded View** 



- 1. Front combination lamp
- Front combination lamp mounting bracket
- Headlamp (high beam) bulb
- 2. Side marker lamp bulb
- Headlamp (low beam) socket cover 6. Headlamp (low beam) bulb
- 8. Turn signal lamp bulb socket
- 3. Front combination lamp harness
- 9. Turn signal lamp bulb

## Disassembly and Assembly

#### DISASSEMBLY

- 1. Remove front combination lamp. Refer to EXL-120, "Removal and Installation".
- Rotate the headlamp (low beam) bulb counterclockwise and remove.
- 3. Disconnect the harness connector from headlamp (low beam) bulb.
- Remove plastic cover.
- 5. Rotate the headlamp (high beam) bulb counterclockwise and remove.
- 6. Disconnect the harness connector from headlamp (high beam) bulb.
- 7. Rotate the side marker lamp bulb socket counterclockwise and remove.
- 8. Remove the side marker lamp bulb from the bulb socket.
- 9. Rotate the turn signal lamp bulb socket counterclockwise and remove.
- 10. Remove the turn signal lamp bulb from the bulb socket.

#### **ASSEMBLY**

Assembly is in the reverse order of disassembly.

#### **CAUTION:**

After installing, be sure to install the bulb sockets securely to ensure watertightness.

**EXL-135** Revision: September 2015 2016 Rogue NAM **EXL** 

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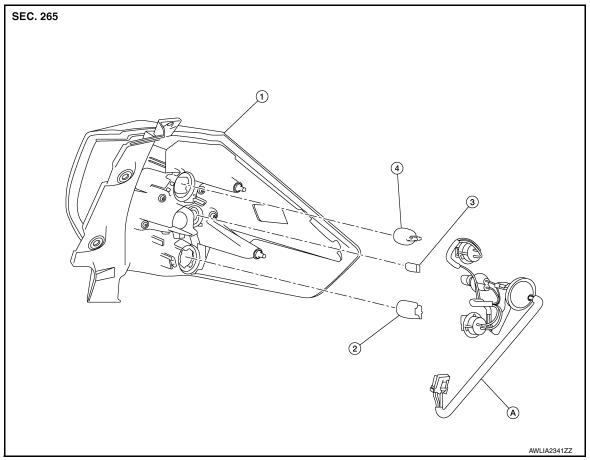
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### REAR COMBINATION LAMP

### **Exploded View**

INFOID:0000000012423065



- 1. Rear combination lamp
- 4. Stop lamp bulb
- 2. Turn signal lamp bulb
- 3. Tail lamp bulb
- A. Rear combination lamp harness

## Disassembly and Assembly

#### INFOID:0000000012423066

### DISASSEMBLY

- Remove rear combination lamp. Refer to <u>EXL-128</u>, "Removal and Installation".
- 2. Rotate the stop lamp bulb socket counterclockwise and remove.
- 3. Remove the stop lamp bulb from the bulb socket.
- 4. Rotate the tail lamp bulb socket counterclockwise and remove.
- 5. Remove the tail lamp bulb from the bulb socket.
- 6. Rotate the turn signal lamp bulb socket counterclockwise and remove.
- 7. Remove the turn signal lamp bulb from bulb socket.

#### ASSEMBLY

Assembly is in the reverse order of disassembly.

#### **CAUTION:**

After installing, be sure to install the bulb sockets securely to ensure watertightness.

### **SERVICE DATA AND SPECIFICATIONS (SDS)**

< SERVICE DATA AND SPECIFICATIONS (SDS)

[HALOGEN HEADLAMP]

INFOID:0000000012423067

# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

**Bulb Specifications** 

|                              | Item                 | Wattage (W)* |
|------------------------------|----------------------|--------------|
|                              | High beam            | 65           |
|                              | Low beam             | 55           |
| Front combination lamp       | Turn signal lamp     | 28/8         |
|                              | Side marker lamp     | 5            |
|                              | Daytime running lamp | _            |
| Front fog lamp (if equipped) |                      | 55           |
| Side turn signal lamp        |                      | _            |
|                              | Stop lamp            | 21           |
| Rear combination lamp        | Tail lamp            | 5            |
|                              | Turn signal lamp     | 21           |
| Dook up lamp                 | Tail lamp            | 5            |
| Back-up lamp                 | Back-up lamp         | 16           |
| License plate lamp           |                      | 5            |
| High-mounted stop lamp       |                      | _            |

<sup>\*:</sup> Always check with the Parts Department for the latest parts info.

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### **PRECAUTIONS**

< PRECAUTION > [LED HEADLAMP]

## **PRECAUTION**

### **PRECAUTIONS**

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

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

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

### **PREPARATION**

< PREPARATION > [LED HEADLAMP]

# **PREPARATION**

## **PREPARATION**

Special Service Tool

INFOID:0000000012423070

| The actual shape of the tools ma | ay differ from those illustrated here. |                          |   |
|----------------------------------|----------------------------------------|--------------------------|---|
| Tool number                      |                                        | Description              |   |
| (TechMate No.)                   |                                        |                          | C |
| Tool name                        |                                        |                          |   |
| _                                |                                        | Removing trim components |   |
| (J-46534)                        |                                        |                          | D |
| Trim Tool Set                    |                                        |                          |   |

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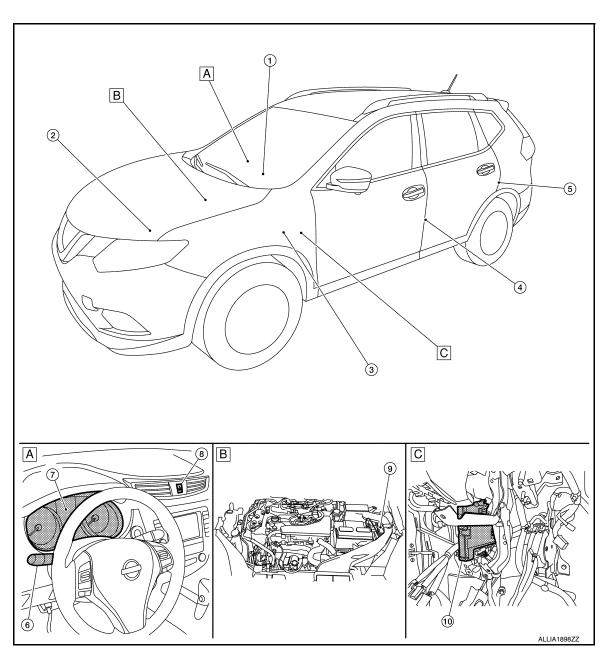
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# SYSTEM DESCRIPTION

## **COMPONENT PARTS**

## **Component Parts Location**

INFOID:0000000012423071



A. Instrument panel

B. Engine compartment

C. Left side of instrument panel (view with trim panel removed)

| No. | Part                              | Function                                                                                                        |
|-----|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1.  | Optical sensor                    | Refer to EXL-10, "Optical Sensor".                                                                              |
| 2.  | LED headlamp control module       | Turns the headlamps ON according to the power supply from IPDM E/R.                                             |
| 3.  | Parking brake switch              | Transmits the parking brake switch signal to the combination meter to operate the daytime running light system. |
| 4.  | Front door switch LH (RH similar) | Transmits the door open signal to the BCM to operate the autolight system.                                      |
| 5.  | Rear door switch LH (RH similar)  | Transmits the door open signal to the Bow to operate the autolight system.                                      |

### **COMPONENT PARTS**

### < SYSTEM DESCRIPTION >

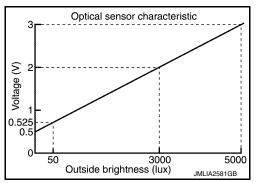
[LED HEADLAMP]

| No. | Part                                                    | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.  | Combination switch<br>(Lighting and turn signal switch) | Refer to BCS-9, "COMBINATION SWITCH READING SYSTEM: System Description" (with Intelligent Key system) or BCS-82, "COMBINATION SWITCH READING SYSTEM: System Description" (without Intelligent Key system).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7.  | Combination meter                                       | Refer to MWI-8, "METER SYSTEM: System Description".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 8.  | Hazard switch                                           | Refer to EXL-10, "Hazard Switch".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9.  | IPDM E/R                                                | <ul> <li>Supplies voltage to the load according to the request from BCM (via CAN communication).</li> <li>Refer to PCS-6. "Component Parts Location" for detailed installation location.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 10. | ВСМ                                                     | <ul> <li>Detects each switch condition by the combination switch reading function.</li> <li>Judges that the exterior lamps are turned ON according to the vehicle condition.</li> <li>Requests the headlamp (HI/LO), tail lamp and front fog lamp ON to IPDM E/R (via CAN communication).</li> <li>Requests high beam indicator lamp ON to the combination meter (via CAN communication).</li> <li>Judges the outside brightness from the optical sensor signal.</li> <li>Judges the ON/OFF timing according to the vehicle condition.</li> <li>Judges the ON/OFF status of the exterior lamp according to the outside brightness and the vehicle condition.</li> <li>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).</li> </ul> |

## **Optical Sensor**

INFOID:0000000012423072

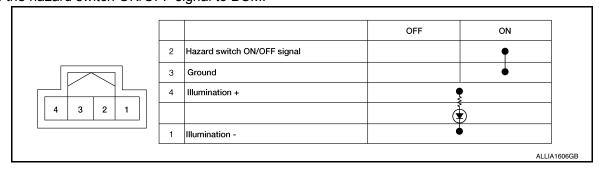
Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.



## **Hazard Switch**

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Inputs the hazard switch ON/OFF signal to BCM.



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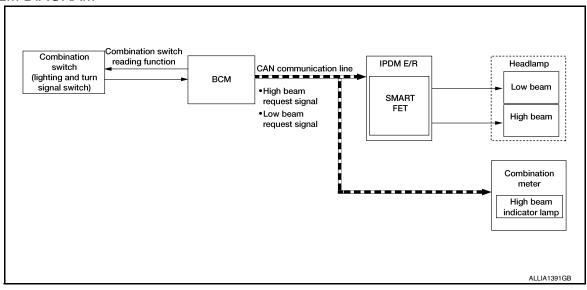
### SYSTEM

### **HEADLAMP SYSTEM**

### **HEADLAMP SYSTEM: System Description**

INFOID:0000000012423074

#### SYSTEM DIAGRAM



#### **OUTLINE**

Headlamp is controlled by combination switch reading function and headlamp control function of BCM, and Smart FET control function of IPDM E/R.

### **HEADLAMP (LO) OPERATION**

- BCM detects the combination switch condition with the combination switch reading function.
- BCM transmits the low beam request signal to IPDM E/R with CAN communication according to the headlamp (LO) ON condition.

### Headlamp (LO) ON condition:

- Lighting switch 2ND
- Lighting switch AUTO (auto light function ON judgment)
- Lighting switch AUTO, with the front fog lamp switch ON and the ignition switch ON
- Lighting switch PASS

#### **HEADLAMP (HI) OPERATION**

BCM transmits the high beam request signal to IPDM E/R and the combination meter with CAN communication according to the headlamp (HI) ON condition.

#### Headlamp (HI) ON condition:

- Lighting switch HI with the lighting switch 2ND or AUTO (auto light function ON judgment)
- Lighting switch PASS
- Lighting switch AUTO, with the front fog lamp switch ON, the ignition switch ON and lighting switch HI
- Combination meter turns the high beam indicator lamp ON according to the high beam request signal.
- IPDM E/R turns the headlamp ON according to the high beam request signal.

### **HEADLAMP SYSTEM:** Fail-Safe

INFOID:0000000012423075

### CAN COMMUNICATION CONTROL

When CAN communication with BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If no CAN communication is available with BCM

| Control part Fail-safe operation |                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Headlamp                         | <ul> <li>Turns ON the headlamp low beam when the ignition switch is turned ON</li> <li>Turns OFF the headlamp low beam when the ignition switch is turned OFF</li> </ul> |

### **AUTO LIGHT SYSTEM**

### **AUTO LIGHT SYSTEM: System Description**

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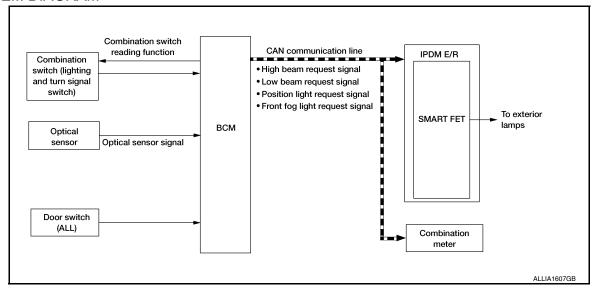
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### SYSTEM DIAGRAM



#### OUTLINE

Auto light system is controlled by each function of BCM and IPDM E/R.

#### Controlled by BCM:

- Combination switch reading function
- Headlamp control function
- Auto light function
- Delay timer function
- Auto light adjustment system

### Controlled by IPDM E/R:

- Auto light system has the auto light function and delay timer function.
- Auto light function automatically turns ON/OFF the exterior lamps\* and each illumination automatically, depending on the outside brightness.
- When auto light system turns the exterior lamps ON with the ignition switch OFF, delay timer function turns
  the exterior lamps OFF, depending on the vehicle condition with the auto light function after a certain period
  of time.
- \*: Headlamp (LO/HI), parking lamp, side marker lamp, tail lamp and front fog lamp (Headlamp HI and front fog lamp depend on the combination switch condition).

### **AUTO LIGHT FUNCTION**

- BCM detects the combination switch condition with the combination switch reading function.
- BCM supplies voltage to optical sensor when the ignition switch is turned ON or ACC.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM judges outside brightness from the optical sensor signal and judges ON/OFF condition of the exterior lamp and each illumination according to the outside brightness.
- BCM transmits each request signal to IPDM E/R and combination meter via CAN communication according to ON/OFF condition by the auto light function.

#### NOTE:

ON/OFF timing differs based on the sensitivity from the setting. The setting can be set by CONSULT. Refer to BCS-19, "HEAD LAMP: CONSULT Function (BCM - HEADLAMP)".

#### AUTO LIGHT ADJUSTMENT SYSTEM

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Revision: September 2015 **EXL-143** 2016 Rogue NAM

[LED HEADLAMP]

The auto light adjustment system automatically dims/brightens the display according to brightness outside the vehicle when lighting switch 1ST, lighting switch 2ND or lighting switch AUTO is operated. Refer to <a href="EXL-143">EXL-143</a>, <a href="AUTO LIGHT SYSTEM">"AUTO LIGHT SYSTEM</a>: System Description".

#### **DELAY TIMER FUNCTION**

BCM turns the exterior lamp OFF depending on the vehicle condition with the auto light function when the ignition switch is turned OFF.

- Turns the exterior lamp OFF 5 minutes after detecting that any door opens. (Door switch ON).
- Turns the exterior lamp OFF a certain period of time\* after closing all doors. (Door switch ON \rightarrow OFF).
- Turns the exterior lamp OFF with the ignition switch ACC or the light switch OFF.
- \*: The preset time is 45 seconds. The timer operating time can be set by CONSULT. Refer to <u>BCS-19</u>, "<u>HEAD LAMP</u>: <u>CONSULT Function (BCM HEADLAMP)</u>" (with Intelligent Key system) or <u>BCS-91</u>, "<u>HEAD LAMP</u>: <u>CONSULT Function (BCM HEADLAMP)</u>" (without Intelligent Key system).

#### NOTE:

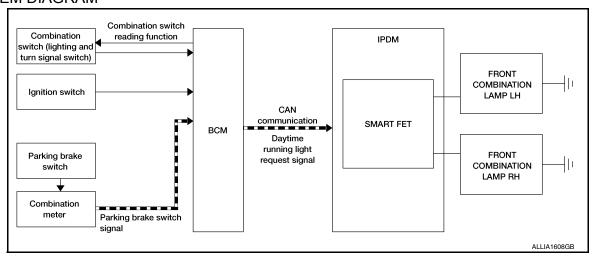
When any position other than the light switch AUTO is set, the auto light system function switches to the exterior lamp battery saver function.

### DAYTIME RUNNING LIGHT SYSTEM

### DAYTIME RUNNING LIGHT SYSTEM: System Description

INFOID:0000000012423077

### SYSTEM DIAGRAM



### **OUTLINE**

• Daytime running light is controlled by daytime running light control function and combination switch reading function of BCM, and smart FET of IPDM E/R.

### DAYTIME RUNNING LIGHT OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- · BCM detects the vehicle condition according to ignition switch
- BCM detects the parking brake condition by the parking brake switch signal received from combination meter using CAN communication.
- BCM transmits the daytime running light request signal to IPDM E/R using CAN communication according to the daytime running light ON condition.

#### Daytime running light ON condition:

- Vehicle condition READY
- Lighting switch OFF or 1ST
- Lighting switch AUTO, and the auto light function OFF judgment
- Parking brake switch OFF
- IPDM E/R controls the daytime running light request signal.
- Power is supplied from the IPDM E/R to the daytime lights.

#### TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description

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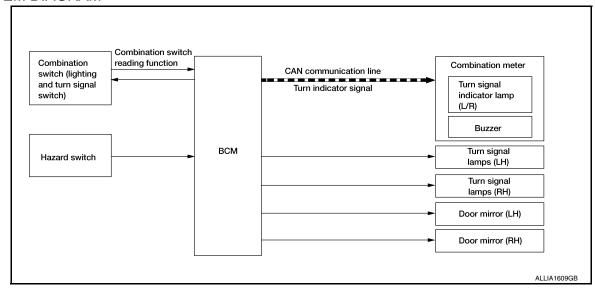
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#### SYSTEM DIAGRAM



#### **OUTLINE**

Turn signal lamp and the hazard warning lamp is controlled by combination switch reading function and the flasher control function of BCM.

#### TURN SIGNAL LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM supplies voltage to the right (left) turn signal lamp circuit when the ignition switch is ON and the turn signal switch is in the right (left) position. BCM blinks the turn signal lamp.

#### HAZARD WARNING LAMP OPERATION

BCM supplies voltage to both turn signal lamp circuit when the hazard switch is ON. BCM blinks the hazard warning lamp.

#### TURN SIGNAL INDICATOR LAMP AND TURN SIGNAL OPERATION

- BCM transmits the turn signal indicator lamp signal to the combination meter using CAN communication while the turn signal lamp and the hazard warning lamp are operating.
- Combination meter outputs the turn signal sound with the integrated buzzer while blinking the turn signal indicator lamp according to the turn signal indicator lamp signal.

#### HIGH FLASHER OPERATION

- BCM detects the turn signal lamp circuit status from the current value.
- BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while operating the hazard warning lamp.

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System De-

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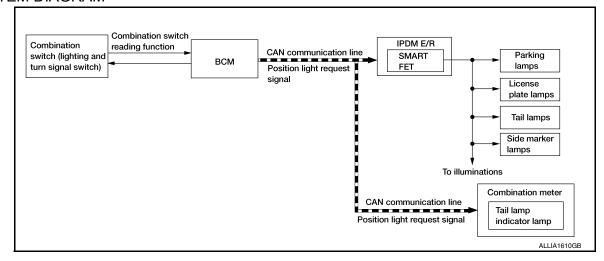
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[LED HEADLAMP]

SCRIPTION INFOID:000000012423081

#### SYSTEM DIAGRAM



#### **OUTLINE**

Parking, license plate, side marker and tail lamps are controlled by combination switch reading function and headlamp control function of BCM, and smart FET of IPDM E/R.

#### PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the position light request signal to IPDM E/R and the combination meter via CAN communication according to the ON/OFF condition of the parking, license plate, side marker and tail lamps.

Parking, license plate, side marker and tail lamps 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 the parking, license plate, side marker and tail lamps ON according to the position light request signal.
- · Combination meter turns the tail lamp indicator lamp ON according to the position light request signal.

# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: Fail-Safe

INFOID:0000000012423082

#### CAN COMMUNICATION CONTROL

When CAN communication with BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If no CAN communication is available with BCM

|   | Control part                                                                                                              | Fail-safe operation                                                                                                         |
|---|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| • | <ul><li>Parking lamp</li><li>License plate lamp</li><li>Illumination</li><li>Tail lamp</li><li>Side marker lamp</li></ul> | Turns ON the tail lamp when the ignition switch is turned ON Turns OFF the tail lamp when the ignition switch is turned OFF |

#### FRONT FOG LAMP SYSTEM

[LED HEADLAMP]

# FRONT FOG LAMP SYSTEM: System Description

INFOID:0000000012423083

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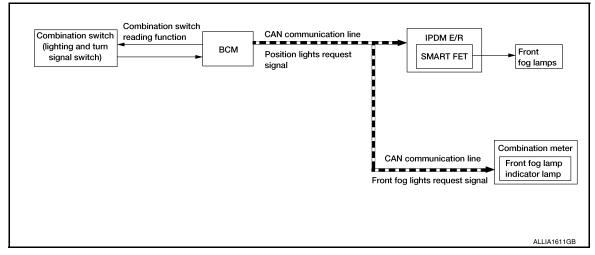
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#### SYSTEM DIAGRAM



#### **OUTLINE**

Front fog lamp is controlled by combination switch reading function, front fog lamp control function of BCM, and smart FET function of IPDM E/R.

#### FRONT FOG LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front fog lights request signal to IPDM E/R and the combination meter via CAN communication according to the front fog lamp ON condition.

Front fog lamp ON condition:

- Front fog lamp switch ON, and any of the following conditions are satisfied (except for the high beam ON):
- Lighting switch 2ND
- Lighting switch AUTO and the ignition switch ON

IPDM E/R turns the front fog lamp ON according to the front fog lights request signal.

Combination meter turns the front fog lamp indicator lamp ON according to the front fog lights request signal.

#### FRONT FOG LAMP SYSTEM: Fail-Safe

INFOID:0000000012423084

#### CAN COMMUNICATION CONTROL

When CAN communication with BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If no CAN communication is available with BCM

| Control part   | Fail-safe operation |
|----------------|---------------------|
| Front fog lamp | Front fog lamp OFF  |

# EXTERIOR LAMP BATTERY SAVER SYSTEM

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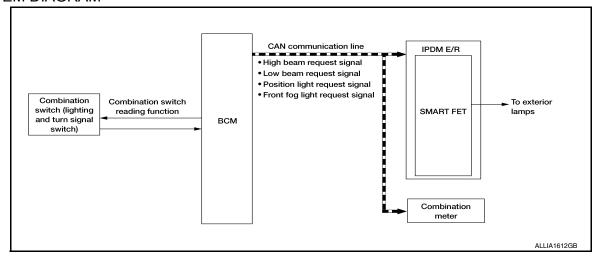
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# EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description

INFOID:0000000012423085

#### SYSTEM DIAGRAM



#### **OUTLINE**

• Exterior lamp battery saver system is controlled by each function of BCM and IPDM E/R.

#### Controlled by BCM:

- Combination switch reading function
- Headlamp control function
- Exterior lamp battery saver function

#### Controlled by IPDM E/R:

- BCM turns the exterior lamps\* OFF after a period of time to prevent the battery from over-discharge when the ignition switch is turned OFF with the exterior lamps ON.
- \*: Headlamp (LO/HI), parking lamp, tail lamp, side marker lamp, license plate lamp and front fog lamp

### EXTERIOR LAMP BATTERY SAVER ACTIVATION

BCM activates the timer and turns the exterior lamp OFF 5 minutes after the ignition switch is turned from ON  $\rightarrow$  OFF with the exterior lamps ON.

#### NOTE:

- Headlamp control function turns the exterior lamps ON normally when the ignition switch is turned ACC or set the vehicle to READY (both before and after the exterior lamp battery saver is turned OFF).
- The timer starts at the time that the lighting switch is turned from OFF → 1ST or 2ND with the exterior lamps OFF.

< SYSTEM DESCRIPTION >

[LED HEADLAMP]

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# DIAGNOSIS SYSTEM (BCM) WITH INTELLIGENT KEY

WITH INTELLIGENT KEY: CONSULT Function (BCM - COMMON ITEM) INFOID:000000012742255

#### 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> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul> |
| CAN Diag Support Mntr  | The result of transmit/receive diagnosis of CAN communication is displayed.                                                                |

#### SYSTEM APPLICATION

BCM can perform the following functions.

|                                      |                 | Direct Diagnostic Mode |                        |              |             |              |               |                       |
|--------------------------------------|-----------------|------------------------|------------------------|--------------|-------------|--------------|---------------|-----------------------|
| System                               | Sub System      | 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 |                        |                        |              | ×           |              |               |                       |

WITH INTELLIGENT KEY: CONSULT Function (BCM - HEADLAMP)

INFOID:0000000012742256

**DATA MONITOR** 

# < SYSTEM DESCRIPTION >

[LED HEADLAMP]

| Monitor Item [Unit]                 | Description                                                                      |  |
|-------------------------------------|----------------------------------------------------------------------------------|--|
| PUSH SW [On/Off]                    | Indicates condition of push-button ignition switch.                              |  |
| ENGINE STATE [STOP/STALL/CRANK/RUN] | Indicates engine status received from ECM on CAN communication line.             |  |
| VEH SPEED 1 [km/h]                  | Indicates vehicle speed signal received from ABS on CAN communication line.      |  |
| TURN SIGNAL R [On/Off]              |                                                                                  |  |
| TURN SIGNAL L [On/Off]              | _                                                                                |  |
| TAIL LAMP SW [On/Off]               |                                                                                  |  |
| HI BEAM SW [On/Off]                 |                                                                                  |  |
| HEAD LAMP SW [On/Off]               | Indicates condition of combination switch.                                       |  |
| LIGHT OFF SW [On/Off]               |                                                                                  |  |
| PASSING SW [On/Off]                 |                                                                                  |  |
| AUTO LIGHT SW [On/Off]              |                                                                                  |  |
| FR FOG SW [On/Off]                  |                                                                                  |  |
| 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.                                         |  |
| OPTI SEN (DTCT) [V]                 | Indicates outside brightness voltage signal from optical sensor.                 |  |
| OPTI SEN (FILT) [V]                 | Indicates outside brightness voltage signal from optical sensor filtered by BCM. |  |
| OPTICAL SENSOR [On/Off]             | Indicates condition of optical sensor.                                           |  |

# **ACTIVE TEST**

| Test Item             | Description                                                                    |
|-----------------------|--------------------------------------------------------------------------------|
| FR FOG LAMP           | This test is able to check front fog lamp operation [On/Off].                  |
| STOP LAMP 1           | This test is able to check rear combination lamp stop lamp operation [On/Off]. |
| STOP LAMP 3           | This test is able to check high-mounted stop lamp operation [On/Off].          |
| DAYTIME RUNNING LIGHT | This test is able to check daytime running light operation [On/Off].           |
| ILL DIM SIGNAL        | This test is able to check illumination dimmer signal [On/Off].                |

# **WORK SUPPORT**

| Support Item           | Setting | Description                                            |
|------------------------|---------|--------------------------------------------------------|
| TWILIGHT ON            | MODE2*  | Autolamp function ON.                                  |
| TWILIGHT ON            | MODE1   | Autolamp function OFF.                                 |
|                        | MODE4   | Less sensitive than normal setting (turns ON later).   |
| CUSTOM A/LIGHT SETTING | MODE3   | More sensitive than MODE2.                             |
| COSTOM A/LIGHT SETTING | MODE2   | More sensitive than normal setting (turns ON earlier). |
|                        | MODE1*  | Normal setting.                                        |

< SYSTEM DESCRIPTION >

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| Support Item  | Setting | Description                                  |
|---------------|---------|----------------------------------------------|
|               | MODE 8  |                                              |
|               | MODE 7  |                                              |
|               | MODE 6  |                                              |
| ILL DELAY SET | MODE 5  | Autoloma dolay timor                         |
| ILL DELAT SET | MODE 4  | Autolamp delay timer.                        |
|               | MODE 3  |                                              |
|               | MODE 2  |                                              |
|               | MODE 1* |                                              |
|               | MODE 4  | This item is displayed but cannot be used    |
| WIPER LINK    | MODE 3* | With wiper INT, LO and HI                    |
| VVIFERLINK    | MODE 2  | With wiper LO and HI                         |
|               | MODE 1  | Without wiper linked and auto light function |

# WITH INTELLIGENT KEY: CONSULT Function (BCM - FLASHER)

INFOID:0000000012742257

#### **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.                |  |
| TURN SIGNAL R [On/Off] | Indicates condition of turn signal function of combination quitab  |  |
| TURN SIGNAL L [On/Off] | Indicates condition of turn signal function of combination switch. |  |
| HAZARD SW [On/Off]     | Indicates condition of hazard 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.         |  |
| RKE-PANIC [On/Off]     | Indicates condition of panic alarm signal from Intelligent Key.    |  |

#### **WORK SUPPORT**

| Support Item           | Setting | Description                 |
|------------------------|---------|-----------------------------|
| 3-TIME FLASHER SETTING | On*     | 3-time flasher setting ON.  |
| 3-TIME PLASHER SETTING | Off     | 3-time flasher setting OFF. |

<sup>\*:</sup> Initial setting

# WITHOUT INTELLIGENT KEY

# WITHOUT INTELLIGENT KEY: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012742258

### 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.        |

# < SYSTEM DESCRIPTION >

[LED HEADLAMP]

| Direct Diagnostic Mode | Description                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Work support           | The settings for BCM functions can be changed.                                                                                             |
| Configuration          | <ul> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul> |
| CAN Diag Support Mntr  | The result of transmit/receive diagnosis of CAN communication is displayed.                                                                |

#### SYSTEM APPLICATION

BCM can perform the following functions.

|                                      |                      | Direct Diagnostic Mode |                        |              |             |              |               |                       |
|--------------------------------------|----------------------|------------------------|------------------------|--------------|-------------|--------------|---------------|-----------------------|
| System                               | Sub System           | 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             |                        |                        | ×            | ×           | ×            |               |                       |
| Remote keyless entry system          | MULTI REMOTE ENT     |                        |                        |              |             | ×            |               |                       |
| Exterior lamp                        | HEADLAMP             |                        |                        | ×            | ×           |              |               |                       |
| Wiper and washer                     | WIPER                |                        |                        | ×            | ×           | ×            |               |                       |
| Turn signal and hazard warning lamps | FLASHER              |                        |                        | ×            | ×           |              |               |                       |
| 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         |                        |                        | ×            |             |              |               |                       |
| TPMS                                 | AIR PRESSURE MONITOR |                        | ×                      | ×            | ×           | ×            |               |                       |

# WITHOUT INTELLIGENT KEY: CONSULT Function (BCM - HEADLAMP) INFOID:0000000127422259

# **DATA MONITOR**

| Monitor Item [Unit]    | Description                                  |
|------------------------|----------------------------------------------|
| TURN SIGNAL R [On/Off] |                                              |
| TURN SIGNAL L [On/Off] |                                              |
| TAIL LAMP SW [On/Off]  |                                              |
| HI BEAM SW [On/Off]    | Indicates condition of combination switch.   |
| HEAD LAMP SW [On/Off]  |                                              |
| LIGHT OFF SW [On/Off]  |                                              |
| PASSING SW [On/Off]    |                                              |
| 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.  |

| < SYSTEM DESCRIPTION > | [LED HEADLAMP]                                                                |  |
|------------------------|-------------------------------------------------------------------------------|--|
| Monitor Item [Unit]    | Description                                                                   |  |
| DOOR SW-RL [On/Off]    | Indicates condition of rear door switch LH.                                   |  |
| DOOR SW-BK [On/Off]    | Indicates condition of back door switch.                                      |  |
| ACTIVE TEST            |                                                                               |  |
| Test Item              | Description                                                                   |  |
| DAYTIME RUNNING LIGHT  | This test is able to check daytime running lamp operation [On/Off].           |  |
| ILL DIM SIGNAL         | This test is able to check head lamp illumination dimming operation [On/Off]. |  |
| WITHOUT INTELLIGENT I  | KEY: CONSULT Function (BCM - FLASHER) INFOID:00000001274226                   |  |
| DATA MONITOR           |                                                                               |  |
| Monitor Item [Unit]    | Description                                                                   |  |
| TURN SIGNAL R [On/Off] |                                                                               |  |
| TURN SIGNAL L [On/Off] | Indicates condition of turn signal function of combination switch.            |  |
| HAZARD SW [On/Off]     | Indicates condition of hazard 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.                    |  |
| RKE-PANIC [On/Off]     | Indicates condition of panic alarm signal from Intelligent Key.               |  |
| ACTIVE TEST            |                                                                               |  |
| Test Item              | Description                                                                   |  |
| icst item              |                                                                               |  |

0

Р

< SYSTEM DESCRIPTION >

[LED HEADLAMP]

# DIAGNOSIS SYSTEM (IPDM E/R)

# CONSULT Function (IPDM E/R)

INFOID:0000000012742353

# **APPLICATION ITEM**

CONSULT performs the following functions via CAN communication with IPDM E/R.

| Direct Diagnostic Mode | Description                                                                 |
|------------------------|-----------------------------------------------------------------------------|
| ECU Identification     | The IPDM E/R part number is displayed.                                      |
| Self Diagnostic Result | The IPDM E/R self diagnostic results are displayed.                         |
| Data Monitor           | The IPDM E/R input/output data is displayed in real time.                   |
| Active Test            | The IPDM E/R activates outputs to test components.                          |
| CAN Diag Support Mntr  | The result of transmit/receive diagnosis of CAN communication is displayed. |

#### **ECU IDENTIFICATION**

The IPDM E/R part number is displayed.

#### SELF DIAGNOSTIC RESULT

Refer to PCS-26, "DTC Index".

#### **DATA MONITOR**

| Monitor Item [Unit]              | Description                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------|
| REVERSE SIGNAL [Open/Close]      | Indicates condition of transmission range switch R (Reverse) position.               |
| IGN RELAY [Open/Close]           | Indicates condition of ignition relay-1.                                             |
| PUSH SW [Open/Close]             | Indicates condition of push-button ignition switch.                                  |
| INTERLOCK/PNP SW [Open/Close]    | Indicates condition of transmission range switch P (Park) and N (Neutral) positions. |
| OIL PRESSURE SW [Open/Close]     | Indicates condition of oil pressure switch.                                          |
| HOOD SW [Open/Close]             | Indicates condition of hood switch.                                                  |
| COMPRESSOR [OFF/ON]              | Indicates condition of A/C compressor.                                               |
| HORN RELAY [OFF/ ON]             | Indicates condition of horn relay.                                                   |
| COOLING FAN [OFF/ON]             | Indicates condition of cooling fan relay-1.                                          |
| FRONT WIPER HI/LO RELAY [OFF/ON] | Indicates condition of front wiper high relay.                                       |
| FRONT WIPER RELAY [OFF/ON]       | Indicates condition of front wiper relay.                                            |
| IGN RELAY OFF STATUS [OFF/ON]    | Indicates condition of ignition relay-1 OFF status.                                  |
| IGN RELAY ON STATUS [OFF/ON]     | Indicates condition of ignition relay-1 ON status.                                   |
| COOLING FAN RELAY 1 [OFF/ON]     | Indicates condition of cooling fan relay-1.                                          |
| STARTER RELAY [OFF/ON]           | Indicates condition of starter relay.                                                |
| COMP ECV DUTY [%]                | Indicates condition of A/C compressor.                                               |
| COOLING FAN RELAY 2 [%]          | Indicates condition of cooling fan relay-2.                                          |
| FR FOG LAMP LH [%]               | Indicates condition of front fog lamp LH.                                            |
| FR FOG LAMP RH [%]               | Indicates condition of front fog lamp RH.                                            |
| PARKING LAMP [%]                 | Indicates condition of parking lamp.                                                 |
| TAIL LAMP LH [%]                 | Indicates condition of tail lamp LH.                                                 |
| TAIL LAMP RH [%]                 | Indicates condition of tail lamp RH.                                                 |
| DAYTIME RUNNING LIGHT LH [%]     | Indicates condition of daytime running light LH.                                     |
| DAYTIME RUNNING LIGHT RH [%]     | Indicates condition of daytime running light RH.                                     |
| HEADLAMP (HI) LH [%]             | Indicates condition of headlamp high beam LH.                                        |

# < SYSTEM DESCRIPTION >

[LED HEADLAMP]

| Monitor Item [Unit]                      | Description                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------|
| HEADLAMP (HI) RH [%]                     | Indicates condition of headlamp high beam RH.                                        |
| HEADLAMP (LO) LH [%]                     | Indicates condition of headlamp low beam LH.                                         |
| HEADLAMP (LO) RH [%]                     | Indicates condition of headlamp low beam RH.                                         |
| A/C RELAY STUCK [NG/OK]                  | Indicates condition of A/C relay.                                                    |
| A/C RELAY [Off/On]                       | Indicates condition of A/C relay.                                                    |
| COMP ECV STATUS [NG/OK]                  | Indicates condition of A/C compressor.                                               |
| /EHICLE SECURITY HORN [Off/On]           | Indicates condition of horn relay.                                                   |
| BATTERY CURRENT SENSOR [NG/OK]           | Indicates condition of battery current sensor.                                       |
| FRONT FOG LAMP [Off/On]                  | Indicates condition of front fog lamps.                                              |
| COMP ECV CURRENT [A]                     | Indicates condition of A/C compressor current.                                       |
| BATTERY VOLTAGE [V]                      | Indicates condition of battery voltage.                                              |
| COOLING FAN DUTY [%]                     | Indicates condition of cooling fans.                                                 |
| HOOD SW (CAN) [OPEN/CLOSE]               | Indicates condition of hood switch.                                                  |
| FRONT WIPER [STOP/LOW/HIGH]              | Indicates condition of front wiper motor.                                            |
| FR WIPER STOP POSITION [STOP P/ACTIVE P] | Indicates condition of front wiper motor stop.                                       |
| HEADLAMP (HI) [Off/On]                   | Indicates condition of headlamp high beams.                                          |
| HEADLAMP (LO) [Off/On]                   | Indicates condition of headlamp low beams.                                           |
| GNITION RELAY STATUS [Off/On]            | Indicates condition of ignition relay-1.                                             |
| GN RELAY MONITOR [Off/On]                | Indicates condition of ignition relay-1 feedback.                                    |
| GNITION POWER SUPPLY [Off/On]            | Indicates condition of ignition relay-1.                                             |
| NTERLOCK/PNP SW (CAN) [Off/On]           | Indicates condition of transmission range switch P (Park) and N (Neutral) positions. |
| PUSH-BUTTON IGN SW (CAN) [Off/On]        | Indicates condition of push-button ignition switch.                                  |
| AIL LAMP [Off/On]                        | Indicates condition of tail lamps.                                                   |
| REVERSE SIGNAL (CAN) [Off/On]            | Indicates condition of transmission range switch R (Reverse) position.               |
| ST&ST CONT RELAY STATUS [Off/ST R On]    | Indicates condition of starter cut and starter relays.                               |
| STARTER MOTOR STATUS [Off/On]            | Indicates condition of starter motor.                                                |
| STARTER RELAY (CAN) [LOW/HIGH]           | Indicates condition of starter relay.                                                |
| PDM NOT SLEEP [NO RDY/RDY]               | Indicates condition of IPDM E/R sleep status.                                        |
| AFTER COOLING TIME [No request/Request]  | Indicates condition of cooling fan request.                                          |
| AFTER COOLING SPEED [%]                  | Indicates condition of cooling fans.                                                 |
| COOLING FAN TYPE [NISSAN/RENAULT]        | Indicates cooling fan type.                                                          |
| COMPRESSOR REQ1 [Off/On]                 | Indicates condition of A/C compressor request.                                       |
| /HCL SECURITY HORN REQ [Off/On]          | Indicates condition of horn relay request.                                           |
| OTRL REQ [Off/On]                        | Indicates condition of daytime running light request.                                |
| SLEEP/WAKE UP [WAKEUP/SLEEP]             | Indicates condition of IPDM E/R sleep/wake.                                          |
| CRANKING ENABLE-TCM [NG/OK]              | Indicates condition of crank enable from TCM.                                        |
| CRANKING ENABLE-ECM [NG/OK]              | Indicates condition of crank enable from ECM.                                        |
| CAN DIAGNOSIS [NG/OK]                    | Indicates condition of CAN diagnosis.                                                |
| FRONT FOG LAMP REQ [Off/On]              | Indicates condition of front fog lamp request.                                       |
| HIGH BEAM REQ [Off/On]                   | Indicates condition of headlamp high beam request.                                   |
| HORN CHIRP [Off/On]                      | Indicates condition of horn relay request.                                           |
| COOLING FAN REQ [%]                      | Indicates condition of cooling fan request.                                          |
| ENGINE STATUS [STOP/RUN/IDLING]          | Indicates condition of engine status.                                                |

**EXL-155** Revision: September 2015 2016 Rogue NAM

# < SYSTEM DESCRIPTION >

[LED HEADLAMP]

| Monitor Item [Unit]                | Description                                                                                                                                                                                                                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TURN SIGNAL REQ [Off/LH/RH]        | Indicates condition of turn signal request.                                                                                                                                                                                                                                                                |
| FR WIPER REQ [RETURN/LOW/HIGH]     | Indicates condition of front wiper motor request.                                                                                                                                                                                                                                                          |
| SHIFT POSITION [P/R/N/D/L]         | Indicates condition of transmission range switch positions.                                                                                                                                                                                                                                                |
| LOW BEAM REQ [Off/On]              | Indicates condition of headlamp low beam request.                                                                                                                                                                                                                                                          |
| POSITION LIGHT REQ [Off/On]        | Indicates condition of parking lamp request.                                                                                                                                                                                                                                                               |
| COMPRESSOR REQ2 [Off/On]           | Indicates condition of A/C compressor request.                                                                                                                                                                                                                                                             |
| IGNITION SW [Off/On]               | Indicates condition of ignition switch.                                                                                                                                                                                                                                                                    |
| VEHICLE SPEED (METER) [mph/km/h]   | Indicates vehicle speed.                                                                                                                                                                                                                                                                                   |
| STARTER OPERATION COUNT            | Displays the number of times the starter motor is turned ON.                                                                                                                                                                                                                                               |
| H/P F/PUMP OPERATN COUNT           | Displays the number of times the high pressure fuel pump is turned ON.                                                                                                                                                                                                                                     |
| BAT DISCHARGE COUNT<br>[—]         | Monitor the cumulative discharge value of the battery.  NOTE:  When 65,000 or more is counted, replace the battery.                                                                                                                                                                                        |
| P LAMP CIRC MALFUNCTN<br>[0 – 1]   | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the parking lamp circuit.  NOTE:  When the number of parking lamp circuit retries count is 20, this item counts 1.                                                                                             |
| NMB P LAMP CIRC RETRY<br>[0 – 20]  | Monitor the number of times that the smart FET in IPDM E/R per mits the retry of the parking lamp circuit.  NOTE:  When the number of short circuits in the parking lamp circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.                                   |
| NMB P LAMP CIRC SHORT<br>[0 – 5]   | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the parking lamp circuit.                                                                                                                                                                                           |
| DTRL LH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the daytime running light (left) circuit.  NOTE:  When the number of daytime running light (left) circuit retries count is 20, this item counts 1.                                                             |
| NMB DTRL LH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R per mits the retry of the daytime running light (left) circuit.  NOTE:  When the number of short circuits in the daytime running light (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.   |
| NMB DTRL LH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the daytime running light (left) circuit.                                                                                                                                                                           |
| DTRL RH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the daytime running light (right) circuit.  NOTE:  When the number of daytime running light (right) circuit retries count is 20, this item counts 1.                                                           |
| NMB DTRL RH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R per mits the retry of the daytime running light (right) circuit.  NOTE:  When the number of short circuits in the daytime running light (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1. |
| NMB DTRL RH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the daytime running light (right) circuit.                                                                                                                                                                          |

< SYSTEM DESCRIPTION >

[LED HEADLAMP]

| Monitor Item [Unit]                   | Description                                                                                                                                                                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F FOG LH CIRC MALFUNCTN<br>[0 – 1]    | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the front fog lamp (left) circuit. <b>NOTE:</b> When the number of front fog lamp (left) circuit retries count is 20, this item counts 1.                                                       |
| NMB F FOG LH CIRC RETRY<br>[0 – 20]   | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the front fog lamp (left) circuit.  NOTE:  When the number of short circuits in the front fog lamp (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.   |
| NMB F FOG LH CIRC SHORT<br>[0 – 5]    | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the front fog lamp (left) circuit.                                                                                                                                                                   |
| F FOG RH CIRC MALFUNCTN<br>[0 – 1]    | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the front fog lamp (right) circuit.  NOTE:  When the number of front fog lamp (right) circuit retries count is 20, this item counts 1.                                                          |
| NMB F FOG RH CIRC RETRY<br>[0 – 20]   | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the front fog lamp (right) circuit.  NOTE:  When the number of short circuits in the front fog lamp (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1. |
| NMB F FOG RH CIRC SHORT<br>[0 – 5]    | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the front fog lamp (right) circuit.                                                                                                                                                                  |
| HL (HI) LH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the headlamp (HI) (left) circuit.  NOTE:  When the number of headlamp (HI) (left) circuit retries count is 20, this item counts 1.                                                              |
| NMB HL (HI) LH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the headlamp (HI) (left) circuit.  NOTE:  When the number of short circuits in the headlamp (HI) (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.     |
| NMB HL (HI) LH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the headlamp (HI) (left) circuit.                                                                                                                                                                    |
| HL (HI) RH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the headlamp (HI) (right) circuit. <b>NOTE:</b> When the number of headlamp (HI) (right) circuit retries count is 20, this item counts 1.                                                       |
| NMB HL (HI) RH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R permits the retry of the headlamp (HI) (right) circuit.  NOTE:  When the number of short circuits in the headlamp (HI) (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.   |
| NMB HL (HI) RH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the headlamp (HI) (right) circuit.                                                                                                                                                                   |
| HL (LO) LH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the headlamp (LO) (left) circuit. <b>NOTE:</b> When the number of headlamp (LO) (left) circuit retries count is 20, this item counts 1.                                                         |

[LED HEADLAMP]

| Monitor Item [Unit]                   | Description                                                                                                                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NMB HL (LO) LH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R per mits the retry of the headlamp (LO) (left) circuit.  NOTE:  When the number of short circuits in the headlamp (LO) (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.   |
| NMB HL (LO) LH CIRC SHORT<br>[0 – 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the headlamp (LO) (left) circuit.                                                                                                                                                                   |
| HL (LO) RH CIRC MALFUNCTN<br>[0 – 1]  | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the headlamp (LO) (right) circuit. <b>NOTE:</b> When the number of headlamp (LO) (right) circuit retries count is 20, this item counts 1.                                                      |
| NMB HL (LO) RH CIRC RETRY<br>[0 – 20] | Monitor the number of times that the smart FET in IPDM E/R per mits the retry of the headlamp (LO) (right) circuit.  NOTE:  When the number of short circuits in the headlamp (LO) (right) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1. |
| NMB HL (LO) RH CIRC SHORT<br>[0 - 5]  | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the headlamp (LO) (right) circuit.                                                                                                                                                                  |
| T LAMP LH CIRC MALFUNCTN<br>[0 – 1]   | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the tail lamp (left) circuit.  NOTE:  When the number of tail lamp (left) circuit retries count is 20, this item counts 1.                                                                     |
| NMB T LAMP LH CIRC RETRY<br>[0 – 20]  | Monitor the number of times that the smart FET in IPDM E/R per mits the retry of the tail lamp (left) circuit.  NOTE:  When the number of short circuits in the tail lamp (left) circuit count is 5 and the ignition switch OFF to ON operation is detected, this item counts 1.           |
| NMB T LAMP LH CIRC SHORT<br>[0 – 5]   | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the tail lamp (left) circuit.                                                                                                                                                                       |
| T LAMP RH CIRC MALFUNCTN<br>[0 – 1]   | Monitor the number of times that the smart FET in IPDM E/R reaches the retry upper limit of the tail lamp (right) circuit.  NOTE:  When the number of tail lamp (right) circuit retries count is 20, this item counts 1.                                                                   |
| NMB T LAMP RH CIRC RETRY<br>[0 – 20]  | Monitor the number of times that the smart FET in IPDM E/R per mits the retry of the tail lamp (right) circuit.  NOTE:  When the number of short circuits in the tail lamp (right) circuit count is 5 and the ignition switch OFF to ON operation is detected this item counts 1.          |
| NMB T LAMP RH CIRC SHORT<br>[0 – 5]   | Monitor the number of times that the smart FET in IPDM E/R detects the over current of the tail lamp (right) circuit.                                                                                                                                                                      |
| BATTERY STATUS<br>[OK/NG]             | Monitor the battery status from the battery output.                                                                                                                                                                                                                                        |
| BAT DISCHARGE COUNT [0-100]           | Indicates condition of battery discharge.                                                                                                                                                                                                                                                  |
| BATTERY STATUS [NG/OK]                | Indicates battery status.                                                                                                                                                                                                                                                                  |

# **ACTIVE TEST**

| Test item   | Description                                                      |
|-------------|------------------------------------------------------------------|
| HORN        | This test is able to check horn operation [Off/On].              |
| FRONT WIPER | This test is able to check wiper motor operation [Off/Low/High]. |

# < SYSTEM DESCRIPTION >

[LED HEADLAMP]

| Test item            | Description                                                          |
|----------------------|----------------------------------------------------------------------|
| COMPRESSOR           | This test is able to check A/C compressor operation [Off/On].        |
| COOLING FAN (DUAL)   | This test is able to check cooling fan operation [Off/LO/HI].        |
| HEADLAMP (HI)        | This test is able to check headlamp high beam operation [Off/3/5].   |
| HEADLAMP (LO)        | This test is able to check headlamp low beam operation [Off/3/5].    |
| FRONT FOG LAMP       | This test is able to check front fog lamp operation [Off/3/5].       |
| DAYTIME RUNNING LAMP | This test is able to check daytime running lamp operation [Off/3/5]. |
| PARKING LAMP         | This test is able to check parking lamp operation [Off/3/5].         |
| TAIL LAMP            | This test is able to check tail lamp operation [Off/3/5].            |

# CAN DIAG SUPPORT MNTR

Refer to LAN-17, "CAN Diagnostic Support Monitor".

# **WORK SUPPORT**

| Work item              | Description                                                    |
|------------------------|----------------------------------------------------------------|
| CML B/DCHRG CRNT CLEAR | In this mode, cumulative battery discharge current is cleared. |

Α

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**EXL** 

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# **ECU DIAGNOSIS INFORMATION**

BCM, IPDM E/R

List of ECU Reference

INFOID:0000000012423093

| ECU                                  | Reference                                                                                                                                                                                                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | BCS-29, "Reference Value"                                                                                                                                                                                                                                                              |
| PCM (with Intelligent Key eyetem)    | BCS-47, "Fail Safe"                                                                                                                                                                                                                                                                    |
| bow (with menigent key system)       | BCS-29, "Reference Value"                                                                                                                                                                                                                                                              |
|                                      | BCS-48, "DTC Index"                                                                                                                                                                                                                                                                    |
|                                      | BCS-97, "Reference Value"                                                                                                                                                                                                                                                              |
| PCM (without Intelligent Key system) | BCS-108, "Fail Safe"                                                                                                                                                                                                                                                                   |
| BOW (without intelligent Key System) | BCS-47, "Fail Safe"  BCS-47, "DTC Inspection Priority Chart"  BCS-48, "DTC Index"  BCS-97, "Reference Value"  BCS-108, "Fail Safe"  BCS-109, "DTC Inspection Priority Chart"  BCS-109, "DTC Inspection Priority Chart"  BCS-109, "DTC Inspection Priority Chart"  BCS-109, "DTC Index" |
| BCM (without Intelligent Key system) | BCS-109, "DTC Index"                                                                                                                                                                                                                                                                   |
|                                      | PCS-17, "Reference Value".                                                                                                                                                                                                                                                             |
| IPDM E/R                             | PCS-25, "Fail-safe"                                                                                                                                                                                                                                                                    |
|                                      | PCS-26, "DTC Index"                                                                                                                                                                                                                                                                    |

Α

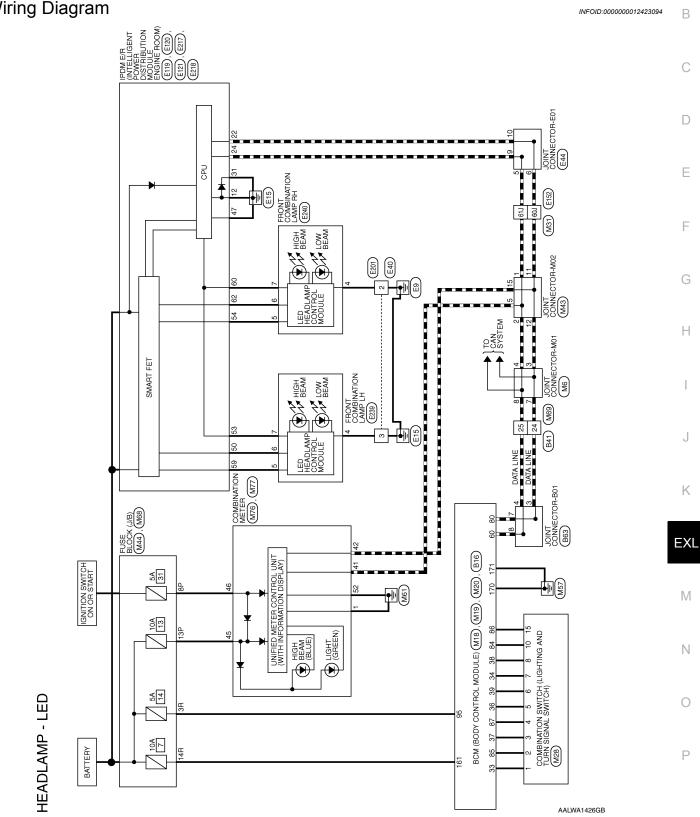
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J

# WIRING DIAGRAM

# **HEADLAMP**

Wiring Diagram



M19

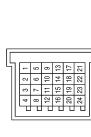
# HEADLAMP CONNECTORS - LED

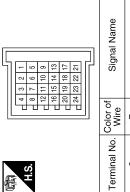




BLACK

Connector Color





|                   | Signal Name       | ı | ı | - | ı |
|-------------------|-------------------|---|---|---|---|
| 21 13 9           | S                 |   |   |   |   |
| 22 18 17 0        |                   |   |   |   |   |
| 24 23 22 24 23 22 |                   |   |   |   |   |
| 24 12 0           | ф <u>«</u>        |   |   |   |   |
|                   | Color<br>Wire     | Ы | 7 | Ы | ٦ |
|                   | Terminal No. Wire | 3 | 4 | 7 | 8 |

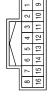
|      | 82 81                         | 101                                                                             |                  |         |         |         |         |                |
|------|-------------------------------|---------------------------------------------------------------------------------|------------------|---------|---------|---------|---------|----------------|
| <br> | 92 91 90 89 88 87 86 85 84 83 | 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 | Signal Name      | O CSW 2 | O CSW 1 | O CSW 3 | O CSW 4 | I SHORTING PIN |
| Ì    | 95 94 93                      | 115114 1131                                                                     | Color of<br>Wire | BR      | SB      | Ь       | BG      | ^              |
|      | 100 99 98 97 96               | 120 119 118 117 116                                                             | Terminal No.     | 84      | 85      | 98      | 87      | 92             |

| Signal Name      | I CSW 5 | O CSW 5 | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |
|------------------|---------|---------|---------|---------|---------|---------|
| Color of<br>Wire | LG      | >       | g       | GR      | ^       | M       |
| Terminal No.     | 33      | 34      | 36      | 37      | 38      | 39      |

| Signal Name      | I CSW 5 | O CSW 5 | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |  |
|------------------|---------|---------|---------|---------|---------|---------|--|
| Color of<br>Wire | LG      | Υ       | В       | GR      | ^       | Μ       |  |
| Terminal No.     | 33      | 34      | 36      | 37      | 38      | 39      |  |
|                  |         |         |         |         |         |         |  |

| Signal Name      | _ | ı | ı | - | ı  | _  |
|------------------|---|---|---|---|----|----|
| Color of<br>Wire | Э | Μ | > | ^ | BR | Ь  |
| Terminal No.     | 9 | 9 | 2 | 8 | 10 | 15 |
|                  |   |   |   |   |    |    |

| M28           | Connector Name (LIGHTING AND TURN SIGNAL SWITCH) | WHITE                 |  |
|---------------|--------------------------------------------------|-----------------------|--|
| Connector No. | Connector Name                                   | Connector Color WHITE |  |



| Signal Na         | I  | _  | I  | _  |
|-------------------|----|----|----|----|
| Color of<br>Wire  | ГG | SB | GR | BG |
| Terminal No. Wire | 1  | 2  | 3  | 4  |

| Connector No.           | M20                                                     |
|-------------------------|---------------------------------------------------------|
| Connector Name BCM (BOD | BCM (BODY CONTROL MODULE)                               |
| Connector Color BROWN   | BROWN                                                   |
|                         | 167166163164   163162161<br>176175174173172   177169168 |



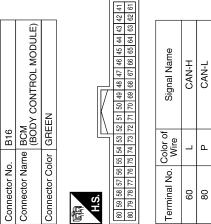
| Signal Name       | I PWR ECU | I GND1 | I GND2 |
|-------------------|-----------|--------|--------|
| Color of<br>Wire  | Μ         | В      | В      |
| Terminal No. Wire | 161       | 170    | 171    |

AALIA2982GB

| Connector No. M43  Connector Name JOINT CONNECTOR-M02  Connector Color BLUE  BLUE  1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Connector No. M69 Connector Name WIRE TO WIRE Connector Color WHITE  Connector Color of M69  Connector Color of M69  Terminal No. Color of Signal Name  24 P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | B C     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F       |
| Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ime FUSE BLOCK (J/B)  lor BROWN  TRIEB ISH 4R TO SIGNATE THE SIGNATURE T | (<br> - |
| Color of Wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | M68    |         |
| 60J 61J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Connector No. M68 Connector Name FUSE BLOCK (J/B) Connector Color BROWN  Terminal No. Wire Signal No. Wire No. Wire Signal No. 14R W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | k       |
| M31  NWIRE TO WIRE  Su   41   31   21   11    100   991   891   72   164   524   523   524    110   991   891   77   164   154   144   134   124   171    100   991   991   991   991   991   991    100   991   981   874   864   854   844   834   823   514    100   991   981   874   864   854   844   854   854    100   991   981   877   864   854   844   854   824    100   991   981   877   864   854   844   853   823    100   991   981   877   864   854   844   853   823    100   991   981   877   864   854   844   853   823    100   991   981   877   864   854   844   853   823    100   991   981   877   864   854   844   853   823    100   991   991   992   992   974    100   993   983   977   984   975   984    100   993   984   877   864   873   873    100   993   984   877   864   873   873    100   993   984   877   864   873   873    100   993   984   877   864   873   873    100   993   984   877   874   975    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   984   977   985    100   993   993   973   973    100   993   993   973    100   993   993   973    100   993   993   973    100   993   995   973    100   993   995   974    100   995   974   975    100   995   975   975    100   995   975    100   995   975    100   995   975    100   995   975    100   995   975    100   995   975    100   995   975    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995    100   995 | OCK (J/B)  □ Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EX      |
| M31   Connector Name   WIRE TO WIRE Connector Name   WIRE TO WIRE   Connector Color   WHITE   Su   41   31   21   10   10   10   10   10   10   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | M44   Connector No.   M44   Connector Name   FUSE BLOCK (J/B)   Connector Color   WHITE   Connector Color of   WHITE   Connector Color of   Wire   Signal Name   Signal    | Λ       |
| Connector No. Connector Name Connector Color  A13 4  A14 4  A14 4  B14 A14 A14 A14 A14 A14 A14 A14 A14 A14 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Connector No. M44 Connector Name FUSE B Connector Color   WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ١       |
| Connector No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Connector No. Connector Colc M.S. H.S. Terminal No. C 8P 13P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AALIA2983GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | F       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ŀ       |

| MATT   COMBINATION METER   WHITE   WHITE   COMBINATION METER   WHITE   COMBINATION METER   GIVEN   G  | Connector No.   M77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Connector No. E40  Connector Name WIRE TO WIRE  Connector Color WHITE | H.S.              | Terminal No.         Color of Wire         Signal Name           2         GR         -           3         B         - |    | Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) | Connector Color GRAY | H.S. (20 20 20 27 26 24 20 22 21 20 19 19 42 41 40 39 38 37 36 36 34 33 32 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Terminal No. Color of Signal Name | 22 P CAN-L | 24 L CAN-H |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|------------|--|
| ector No.  ector Colo  ector Colo  11  142  145  145  145  10  ector No.  ector No.  Colo  ector No.  Colo  ector | lame   Aame   Aa | M77 COMBINATION METER WHITE                                           | 47 48 49 50 51 52 | Color of Signal Name L CAN-H P CAN-L LA/G BAT                                                                           | 61 | POWER DISTRIBUTION MODULE ENGINE ROOM)                | GRAY                 | 9 8 7 6 6 6 6 7 14 13 12 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10 | Color of Signal Name              | В          |            |  |

| Terminal No. Color of Signal Name 60J P – 61J L – 61J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Connector No. E218  Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)  Connector Color   WHITE  Terminal No. Wire   Signal Name   So G O LIGHT HBEAM LH   60 Y LI LED DETECTION 1   62 SB O LIGHT LBEAM RH   62 SB O LIGHT LBEAM RH | A<br>B<br>C<br>D |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                         | F                |
| THE WIRE TO WIRE  OF WHITE  10 20 30 40 50 50 50 50 50 50 50 50 50 50 50 50 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E217 POWER DISTRIBUTION MODULE ENGINE ROOM) BROWN  signal Name re OLIGHT LBEAM LH R LI LED DETECTION 2 GOLIGHT HBEAM RH                                                                                                                 | G                |
| 11. IZJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                                                                                                                                                       |                  |
| Connector No. E152  Connector Name WIRE TO WIRE  Connector Color WHITE  10 20 30 4 20 10 10 10 10 10 10 10 10 10 10 10 10 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Connector No.  Connector Name Connector Color Terminal No. Col 53 G 54 L                                                                                                                                                                | J                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                         |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                         | K                |
| F121 PDWE F/R (INTELLIGENT MODULE ENGINE ROOM) RED  ### ### ### ####  ### ### ####  ### ### ####  ### ### ####  ### ### ####  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ### ###  ####  ### ###  ### ###  ####  ####  ####  ####  ####  ####  #### | MIRE Signal Name                                                                                                                                                                                                                        | EX               |
| POWE POWE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                         | M                |
| 125181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                         | N                |
| Connector No.  Connector Color  Connector Color  Connector Color  A.S.  H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Connector No. Connector Color Terminal No. Solor 3 B                                                                                                                                                                                    |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AALIA2985GB                                                                                                                                                                                                                             | 0                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                         | Р                |

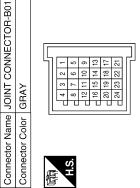


| Connector No.         | E240                                     | Connector No.   |
|-----------------------|------------------------------------------|-----------------|
| Connector Name        | Connector Name FRONT COMBINATION LAMP RH | Connector Name  |
| Connector Color BLACK | BLACK                                    | Connector Color |
|                       | 4 5 6 7                                  |                 |

| Signal Name       | 1 | 1  | 1  | I        |
|-------------------|---|----|----|----------|
| Color of<br>Wire  | В | ГG | SB | <b>\</b> |
| Terminal No. Wire | 4 | 5  | 9  | 7        |



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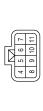


B63

Connector No.

| Signal Nam       | 1 | ı | 1 | _ |
|------------------|---|---|---|---|
| Color of<br>Wire | ۵ | ٦ | Д | ٦ |
| Terminal No.     | 3 | 4 | 7 | 8 |

|               | MBINATION                                |                       |  |
|---------------|------------------------------------------|-----------------------|--|
| E239          | FRONT COI                                | BLACK                 |  |
| Connector No. | Connector Name FRONT COMBINATION LAMP LH | Connector Color BLACK |  |





| Signal Name       | ı | 1 | ı | I  |
|-------------------|---|---|---|----|
| Color of<br>Wire  | В | g | ٦ | GR |
| Terminal No. Wire | 4 | 5 | 9 | 2  |

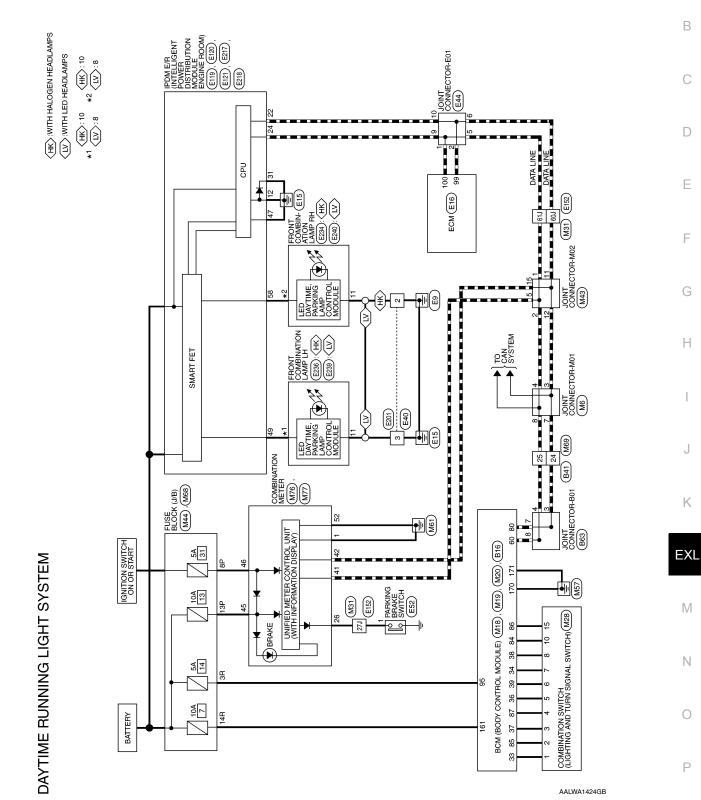
| Connector No.               | ٥r آ | <u>o</u> |      | В  | B41 |    |    |     |    |    |    |    |                                                 |    |    |    |
|-----------------------------|------|----------|------|----|-----|----|----|-----|----|----|----|----|-------------------------------------------------|----|----|----|
| Connector Name WIRE TO WIRE | 5    | ğ        | le l | >  | ≝   | ш. | 2  | ≥   | ≝  | ш  |    |    |                                                 |    |    |    |
| Connector Color WHITE       | o o  | 혓        | 5    | >  | Ξ   | Ш  |    |     |    |    |    |    |                                                 |    |    |    |
| E                           |      |          |      |    |     |    |    | l l |    |    |    |    |                                                 |    |    |    |
|                             | -    | 2        | 3 4  | 4  | 22  | 9  | ~  | ∞   | 6  | 10 | ΙĘ | 12 | 8 9 10 11 12 13 14 15 16                        | 14 | 15 | 19 |
| Ņ.                          | 17   | 18       | 19   | 20 | 21  | 22 | 23 | 24  | 25 | 26 | 27 | 28 | 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 | 30 | 31 | 32 |
|                             |      |          |      |    |     |    |    |     |    |    |    |    |                                                 |    |    | l  |

| Signal Name      | 1  | -  |  |
|------------------|----|----|--|
| Color of<br>Wire | Ь  | _  |  |
| Terminal No.     | 24 | 25 |  |

AALIA2987GB

# DAYTIME RUNNING LIGHT SYSTEM

Wiring Diagram



Connector Name BCM (BODY CONTROL MODULE) BLACK

Connector Color

M19

Connector No.

# DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

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



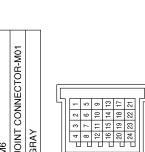
Connector Name BCM (BODY CONTROL MODULE)

M18

Connector No.

GRAY

Connector Color



| 4 4 3 2 1<br>12 11 10 9<br>16 15 14 13<br>20 19 18 17<br>24 23 22 2 2 | Signal Name      | _ | I | _ |
|-----------------------------------------------------------------------|------------------|---|---|---|
|                                                                       | Color of<br>Wire | Ь | Г | Ь |
| H.S.                                                                  | Color of Wire    | 3 | 4 | 7 |

| Signal Name       | O CSW 2 | O CSW 1 | O CSW 3 | O CSW 4 | I SHORTING PIN |  |
|-------------------|---------|---------|---------|---------|----------------|--|
| Color of<br>Wire  | BR      | SB      | ۵       | BG      | ۸              |  |
| Terminal No. Wire | 84      | 98      | 98      | 87      | 96             |  |

|                   |         | _        | _       | _       |         |         |
|-------------------|---------|----------|---------|---------|---------|---------|
| Signal Name       | I CSM 5 | O CSW 5  | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |
| Color of<br>Wire  | ГG      | <b>\</b> | G       | GR      | ^       | Μ       |
| Terminal No. Wire | 33      | 34       | 36      | 37      | 38      | 39      |

|                   | Color of |            |
|-------------------|----------|------------|
| Terminal No. Wire | Wire     | Signal Nar |
| 33                | LG       | I CSW 5    |
| 34                | <b>\</b> | O CSW      |
| 98                | 9        | I CSW 3    |
| 37                | GR       | I CSW 4    |
| 38                | ^        | I CSW 1    |
| 39                | Μ        | I CSW 2    |
|                   |          |            |

| Signal Name               | I | ı | I | I |  |
|---------------------------|---|---|---|---|--|
| Color of<br>Wire          | Ь | ٦ | Ь | ٦ |  |
| erminal No. Color of Wire | 3 | 4 | 7 | 8 |  |

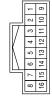
| Signal Name       | I | I | ı        | I | ı  | ı  |
|-------------------|---|---|----------|---|----|----|
| Color of<br>Wire  | ŋ | Μ | <b>\</b> | ^ | BR | Ь  |
| Terminal No. Wire | 5 | 9 | 7        | 8 | 10 | 15 |

| Connector No.         | M28                                                       |
|-----------------------|-----------------------------------------------------------|
| Connector Name        | COMBINATION SWITC<br>(LIGHTING AND TURN<br>SIGNAL SWITCH) |
| Connector Color WHITE | WHITE                                                     |
|                       |                                                           |

Connector Name | BCM (BODY CONTROL MODULE)

Connector No.

Connector Color BROWN



| Signal Name       | I  | ı  | I  | 1  |
|-------------------|----|----|----|----|
| Color of<br>Wire  | LG | SB | GR | BG |
| Terminal No. Wire | -  | 2  | 8  | 4  |

| Signal Name       | I PWR ECU | I GND1 | I GND2 |
|-------------------|-----------|--------|--------|
| Color of<br>Wire  | M         | В      | В      |
| Terminal No. Wire | 161       | 170    | 171    |

AALIA2953GB

# [LED HEADLAMP]

Α

В

С

 $\mathsf{D}$ 

Е

F

G

Н

Κ

EXL

M

Ν

0

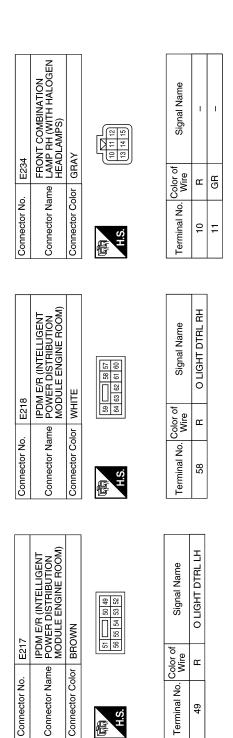
Р

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | 34 35 36 37 38 39 40                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M44   M46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                                         | 4 8                                                                                                                                                                                   |
| o N N O O O O O O O O O O O O O O O O O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13P                                                                                       | M76   Connector No.   M76   Connector Name   COMBINATION METER                                                                                                                        |
| OR-M02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           | 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                               |
| NT CONNECT.  JE   6   5   4   3   2     7   16   15   14   13   12     8   8   9   2     7   16   15   14   13   12     8   16   15   14   13   12     9   10   10   10     10   10   10   10     10   10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                           | 3                                                                                                                                                                                     |
| tor No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2 5 L L 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Connector No. M69  Connector Name WIRE TO WIRE  Connector Color WHITE  MISTERIA 13 12 11 10 9 8 8 12 12 13 12 11 10 9 8 8 12 12 12 11 10 9 8 8 12 12 12 12 12 12 12 12 12 12 12 12 12 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |                                                                                                                                                                                       |
| M31  or WHITE    WAITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11   12   13   13   13   13   13   13                                                     | Connector No.         M68           Connector Name         FUSE BLOCK (J/B)           Connector Color         BROWN           In I                |
| Connector No. M31 Connector Name WIRE T Connector Color WHITE  Sul 420   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320   320 |                                                                                           | Connector No. M68 Connector Name FUSE BI Connector Color BROWN H.S. Terminal No. Wire 3R V 14R W                                                                                      |
| Connector No. Connector Name Connector Color H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Terminal No. 27J 60J 61J                                                                  | Connector No. Connector Nam Connector Cold H.S. H.S. 3R 14R                                                                                                                           |

Revision: September 2015 **EXL-169** 2016 Rogue NAM

| Connector No. E40 Connector Name WIRE TO WIRE Connector Color WHITE | H.S. 3 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Terminal No.   Color of   Signal Name | 2 GR –     | 3 В         |            |    | Connector No. E119 | Connector Name POWER DISTRIBUTION                         | Connector Color GRAY | (9 8 7 6 (15 4 3) | H.S.                                        |             | Terminal No. Color of Signal Name     | 12 B SIGNAL GROUND |   |   |            |   |    |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------|-------------|------------|----|--------------------|-----------------------------------------------------------|----------------------|-------------------|---------------------------------------------|-------------|---------------------------------------|--------------------|---|---|------------|---|----|
| Connector No. E16 Connector Name ECM Connector Color BLACK          | H.S. (97   101   105   109   113   171   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   125   1 | Terminal No.   Color of   Signal Name | 99 P CAN-L | 100 L CAN-H |            |    | Connector No. E52  | Connector Name PARKING BRAKE SWITCH Connector Color BLACK |                      | H.S.              |                                             |             | Terminal No.   Color of   Signal Name | 1 6                |   |   |            |   |    |
| M77  COMBINATION METER  N WHITE                                     | 47 48 49 50 51 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Color of Signal Name                  | L CAN-H    |             | LAVBN IGIN | 5  | E44                | le JOINT CONNECTOR-E01                                    |                      | 4 3 2 1           | 8 7 6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 28 27 28 25 | Color of Signal Name                  | - 7                | 1 | 1 | 1          | - | 1  |
| Connector No. M77 Connector Name COMBINATI Connector Color WHITE    | 是<br>H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Terminal No.                          | 41         |             | 40         | 76 | Connector No.      | Connector Name                                            | á                    | (A)               |                                             |             | Terminal No.                          | -                  | 2 | 2 | φ<br>ALIA2 | o | 10 |

|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Α   |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                                                                                                 | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | В   |
|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | С   |
|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | D   |
|                                                                                                 | Connector No. Connector Name Connector Color Terminal No. 3 E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Е   |
|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | F   |
| 7R (INTELLIGENT R DISTRIBUTION LE ENGINE ROOM) 44 43 44 43 47 46 Signal Name POWER GROUND       | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | G   |
|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Н   |
|                                                                                                 | No. Color of Mire of G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1   |
| Connector Name Connector Color Terminal No. W                                                   | 27.7 60.1 61.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | J   |
|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | K   |
| E120 POWER DISTRIBUTION MODULE ENGINE ROOM) GRAY  GRAY  To a so a | E152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EXI |
|                                                                                                 | E152   WIRE TO   WHITE   WHI | M   |
| nector Nc nector Nc nector Cc S. S. 22 24 31                                                    | to t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N   |
| Conr                                                                                            | AALIA2956GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0   |
|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | D   |



| E236                       |                                     | Connector No.         | ). E239          | 6                                           | Conn      | Connector No.         | E240                                      |                                             |
|----------------------------|-------------------------------------|-----------------------|------------------|---------------------------------------------|-----------|-----------------------|-------------------------------------------|---------------------------------------------|
| Connector Name LAMP LH (M  | OMBINATION<br>(WITH HALOGEN<br>IPS) | Connector Na          | ame LAN<br>HEA   | Connector Name LAMP LH (WITH LED HEADLAMPS) | Conn      | ector Nam             | FRONT COMBI<br>LAMP RH (WIT<br>HEADLAMPS) | Connector Name LAMP RH (WITH LED HEADLAMPS) |
| Connector Color GRAY       |                                     | Connector Color BLACK | olor BLA         | CK                                          | Conn      | Connector Color BLACK | r BLACK                                   |                                             |
| 0 6 7 4 4                  |                                     | H.S.                  | 4 🔊              | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0      | 雨<br>H.S. | , ø                   | 4 8                                       | 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1      |
| Terminal No. Color of Wire | Signal Name                         | Terminal No. Wire     | Color of<br>Wire | Signal Name                                 | Term      | Terminal No. Wire     | olor of<br>Wire                           | Signal Name                                 |
| В                          | ı                                   | 80                    | æ                | 1                                           |           | 8                     | æ                                         | 1                                           |
| GR                         | 1                                   | -                     | В                | ı                                           |           | 1                     | В                                         | ı                                           |

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# **DAYTIME RUNNING LIGHT SYSTEM**

< WIRING DIAGRAM > [LED HEADLAMP]

|               | JOINT CONNECTOR-B01 | AY              | 8 7 6 5 1 1 10 9 10 11 11 11 11 11 11 11 11 11 11 11 11 | Signal Name       | - | 1 | 1 | ı |
|---------------|---------------------|-----------------|---------------------------------------------------------|-------------------|---|---|---|---|
| . B63         |                     | lor GRAY        |                                                         | Color of<br>Wire  | Ь | _ | ۵ | _ |
| Connector No. | Connector Name      | Connector Color | ₽.S.                                                    | Terminal No. Wire | 8 | 4 | 2 | α |
|               |                     |                 |                                                         |                   |   |   |   |   |

|               |          |                                                   |       | 8 9 10 11 12 13 14 15 16 | 17   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32 |    |    |  |  |     |   |    |
|---------------|----------|---------------------------------------------------|-------|--------------------------|-------------------------------------------------------------------------------|----|----|--|--|-----|---|----|
|               |          |                                                   |       | =                        | 27 2                                                                          |    |    |  |  |     |   |    |
|               |          |                                                   | - 17  | 10                       | 26                                                                            |    |    |  |  |     |   |    |
|               | 置        | Connector Name WIRE TO WIRE Connector Color WHITE |       | 6                        | 25                                                                            |    |    |  |  |     |   |    |
|               | ⋛        |                                                   | WHITE |                          |                                                                               |    |    |  |  | I N | 8 | 24 |
|               | 9        |                                                   |       |                          |                                                                               |    |    |  |  |     | 9 | 23 |
|               | Ш        |                                                   |       |                          | 9                                                                             | 22 |    |  |  |     |   |    |
| ∓             | Ē        |                                                   |       |                          | 2                                                                             | 21 |    |  |  |     |   |    |
| B41           | ≥        |                                                   |       | >                        |                                                                               | 4  | 20 |  |  |     |   |    |
|               | ē        | _                                                 |       | က                        | 19                                                                            |    |    |  |  |     |   |    |
| ö             | aπ       | 등                                                 |       | 2                        | 18                                                                            |    |    |  |  |     |   |    |
| z             | Z        | ő                                                 |       | -                        | 17                                                                            |    |    |  |  |     |   |    |
| Connector No. | Connecto | Connector Color WHITE                             | 佢     | SIL                      |                                                                               |    |    |  |  |     |   |    |

| or ne 5 54 74 5 54 74 8 5 54 74 8 5 54 74 8 5 54 74 8 5 54 74 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 5 54 8 |               | ODY CONTROL         |                 |   | 50 49 48 47 46 45 44 43 42 41 | 70 69 68 67 66 65 64 63 62 61 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|-----------------|---|-------------------------------|-------------------------------|
| No. Name Color 65 55 54 77 77 77 77 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 316           | BCM (BOE<br>MODULE) | GREEN           | \ | 53 52 51 8                    | 73 72 71                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Connector No. | Name                | Connector Color |   | 59 58 57 56 55 54             | 76 75 74                      |

| Signal Name      | CAN-H | CAN-L |  |
|------------------|-------|-------|--|
| Color of<br>Wire | ٦     | Ь     |  |
| Terminal No.     | 09    | 80    |  |

Signal Name

Terminal No. Wire

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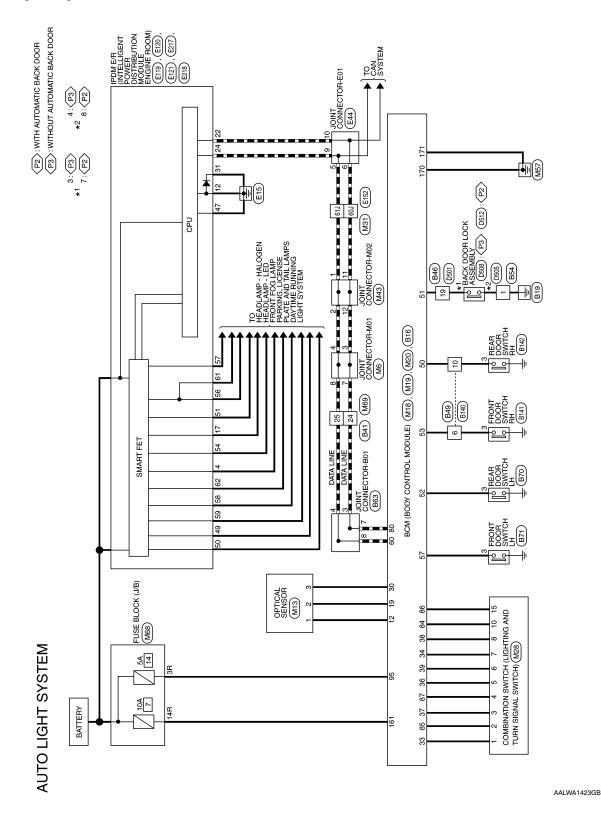
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# **AUTO LIGHT SYSTEM**

Wiring Diagram



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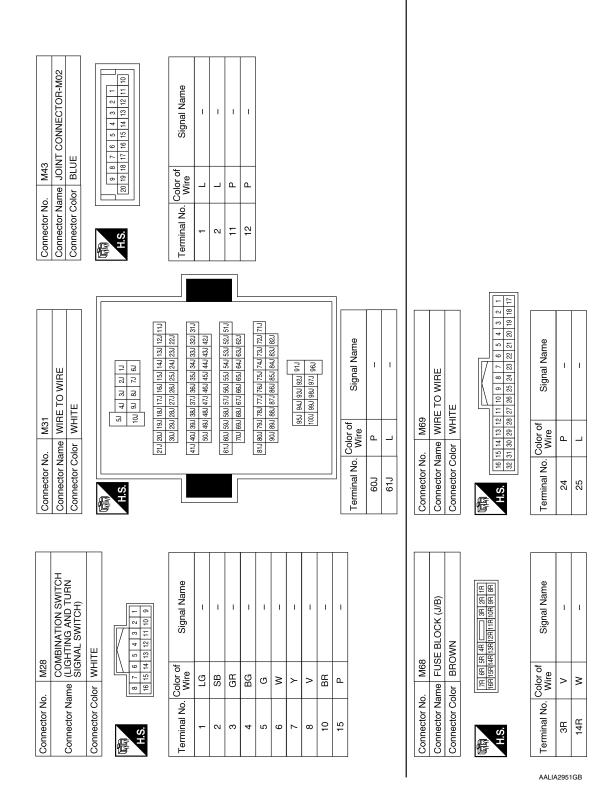
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|                                                                                           |                 | 5 4 3 2 1<br>25 24 23 22 21                                |                                              |                           |                     |                           |         |         |         |         |         |         |               |                        |         |                 |                                       |     |                                                                                                                       |           |                     |            |            |           |            |                  |
|-------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------|----------------------------------------------|---------------------------|---------------------|---------------------------|---------|---------|---------|---------|---------|---------|---------------|------------------------|---------|-----------------|---------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------|-----------|---------------------|------------|------------|-----------|------------|------------------|
| 3<br>M (BODY CONTROL                                                                      | MODÛLE)<br>GRAY | 15 14 13 12 11 10 9 8 7 6<br>35 34 33 32 31 30 20 28 27 26 |                                              | O PWR AUTOLIGHT<br>SENSOR | I AUTOLIGHT SENSOR  | O GND AUTOLIGHT<br>SENSOR | I CSW 5 | O CSW 5 | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |               |                        |         |                 |                                       |     |                                                                                                                       |           |                     |            |            |           |            |                  |
|                                                                                           |                 | 19 18 17 16<br>39 38 37 36                                 | Color of<br>Wire                             | >                         | Pe                  | >                         | ГG      | Υ       | В       | GR      | ۸       | >       |               |                        |         |                 |                                       |     |                                                                                                                       |           |                     |            |            |           |            |                  |
| Connector No.                                                                             | Connector Color | 所<br>H.S. 40 1                                             | Terminal No.                                 | 12                        | 19                  | 30                        | 33      | 34      | 36      | 37      | 38      | 39      |               |                        |         |                 |                                       |     |                                                                                                                       |           |                     |            |            |           |            |                  |
|                                                                                           |                 |                                                            |                                              |                           |                     |                           |         |         |         |         |         |         |               |                        |         |                 |                                       | Г   |                                                                                                                       |           |                     |            |            |           |            |                  |
| M13<br>OPTICAL SENSOR                                                                     | TE              | 123                                                        |                                              |                           | Signal Name         | 1                         | 1       | ı       |         |         |         |         |               | A (BODY CONTROL        | MODÙLE) | BROWN           | 5164163162161<br>41731721771170169168 |     | Signal Name                                                                                                           | I PWR ECU | I GND1              | I GND2     |            |           |            |                  |
|                                                                                           |                 |                                                            |                                              | Color of                  | Wire                | > !                       | 5 ;     | >       |         |         |         |         | OCM           | <u>e</u>               | _       | _               | 167166165164                          |     | Color of<br>Wire                                                                                                      | W         | В                   | В          |            |           |            |                  |
| Connector No.                                                                             | Connector Color | 原<br>H.S.                                                  |                                              |                           | Terminal No.        | - 0                       | N G     | n       |         |         |         |         | Connector No. | Connector Name         |         | Connector Color | が                                     | 113 | Terminal No.                                                                                                          | 161       | 170                 | 171        |            |           |            |                  |
| AUTO LIGHT SYSTEM CONNECTORS    Connector No.   M6   Connector Name   LOINT CONNECTOR-M01 | Color GRAY      | 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                    | 16 15 14 13<br>20 19 18 17<br>1 2 4 23 22 21 | Color of                  | o. Wire Signal Name |                           | ا ا     |         |         |         |         |         | ON<br>OTW     | Name BCM (BODY CONTROL | MODÙLE) | Color BLACK     |                                       |     | 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 12011911811811811101191091081108110511061105104103102101 | Color of  | o. Wire Signal Name | BR O CSW 2 | SB O CSW 1 | P O CSW 3 | BG O CSW 4 | V I SHORTING PIN |
| Connector No.                                                                             | Connector Color | 原<br>H.S.                                                  |                                              |                           | Terminal No.        | დ -                       | 4 1     | - c     | Φ       |         |         |         | Connector No. | Connector              |         | Connector Color |                                       | Ĉ.  | 100 99 98 97 96 95 94 93<br>120 119 118 117 116 115 114 113                                                           |           | Terminal No.        | 84         | 82         | 98        | 87         | 92               |
| Α                                                                                         |                 |                                                            |                                              |                           |                     |                           |         |         |         |         |         |         | l             |                        |         |                 |                                       |     |                                                                                                                       |           |                     |            | AA         | LIA21     | 12GE       | 3                |

Revision: September 2015 **EXL-175** 2016 Rogue NAM



| ## A CAN-LIGENT FER DISTRIBUTION OULE ENGINE ROOM)    Columbia   C | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A<br>B<br>C |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| E12C<br>MODD<br>MODD<br>MODD<br>GRA<br>GRA<br>GRA<br>GRA<br>GRA<br>GRA<br>GRA<br>GRA<br>GRA<br>GRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Wire Sign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D           |
| Connector No.  Connector Name Connector Color  H.S.  Terminal No. Ool 22 22 24 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Terminal No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E<br>F      |
| POWER DISTRIBUTION MODULE ENGINE ROOM) GRAY  GRAY  18 7 6 5 4 3 18 17 16 15 14 13 12 11 10  Colight Position REAR LH SIGNAL GROUND OLIGHT POSITION REAR RH  OLIGHT POSITION REAR RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11   12   13   14   15   16   17   18   19   10   11   12   13   14   15   16   17   18   19   10   11   11   13   14   15   16   17   18   19   10   11   11   12   13   14   15   16   17   18   19   10   11   12   13   14   15   16   17   18   19   10   11   12   13   14   15   16   17   18   19   10   11   12   13   14   15   16   17   18   19   10   11   12   13   14   15   16   17   18   19   10   11   11   12   13   14   15   16   17   18   19   10   11   11   12   13   14   15   16   17   18   18   18   10   11   11   12   13   14   15   16   17   18   18   18   18   18   18   18 | G           |
| IPDM I POWE MODU GRAY  or of fire  www.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.   E152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I           |
| Connector No.  Connector Color  Connector Color  Terminal No. Col  4  4  12  17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Connector No. Connector Color Connector Color 330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | J<br>K      |
| E44  WHITE  WHITE  # 1 2 1 1 10 9 12 11 10 10 10 10 10 10 10 10 10 10 10 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E121 IPDM E/R (INTELLIGENT POWER BY DISTRIBUTION) RED  State 43  State 43  State 43  Signal Name  Prower GROUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EXL         |
| ctor Name ctor Color and No. Color N | ctor Name ctor Name all No. William VVIII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ν           |
| Conne Conne Termir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AALIA2952GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | O<br>P      |

| Connector Name BCM (BODY CONTROL MODULE) Connector Color GREEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sign   Sign | 50 W I RR DOOR SW                           | } | 53 SB I AS DOOR2 SW                   | 3 _                           | 80 P CAN-L | Connector No. B49 | Connector Name WIRE TO WIRE | Connector Color WHITE    | H.S.                                                                                                                                                                                                                                                                                                                                             | Terminal No.   Color of   Signal Name     | - SB :: |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---|---------------------------------------|-------------------------------|------------|-------------------|-----------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------|
| ctor Name   POWER DISTRIBUTION   MODULE ENGINE ROOM)   MODULE ENGINE ROOM)   MODULE ENGINE ROOM   MHITE   MEIRER   MEIRE | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 57 W OLIGHT FR FOG                          | œ | 59 G OLIGHT HBEAM LH COUGHT CLEARANCE | 5 8                           |            |                   | WIRE TO WIRE                | Connector Color WHITE Co | (所)                                                                                                                                                                                                                                                                                                                                              | Terminal No. Color of Signal Name Te      | - LG -  |
| ector Color BROWN    POWER DISTRIBUTION MODULE ENGINE ROOM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ]<br> <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 49 R OLIGHT DTRLLH<br>50 I OLIGHT IBFAM I H | > | re c                                  | 56 BG O LIGHT CLEARANCE FR LH |            | B41               | ector Name WIRE TO WIRE     | ector Color WHITE        | 1         2         3         4         5         6         7         8         9         10         11         12         13         14         15         16           17         18         19         20         21         22         23         24         25         26         27         28         29         30         31         32 | inal No. Color of Signal Name Signal Name | 24 P –  |

AALIA2115GB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                                                                                                                                                                                                                                                                                                                      |                                 | Α   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            | Н                                                                                                                                                                                                                                                                                                                                                    |                                 | В   |
| B70 REAR DOOR SWITCH LH WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signal Name                | B141 FRONT DOOR SWITCH RH WHITE                                                                                                                                                                                                                                                                                                                      | Signal Name                     | С   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | lor of Wire                | B141 FRONT DO WHITE                                                                                                                                                                                                                                                                                                                                  | Color of Wire                   | D   |
| Connector No. Connector Color Connector Color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Color of Wire 3 R          | Connector No. Connector Color Connector Color                                                                                                                                                                                                                                                                                                        | Terminal No. Col.               | Е   |
| Conne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Tem                        | Connection (Connection)                                                                                                                                                                                                                                                                                                                              | Tem                             | F   |
| -B01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | e e                        |                                                                                                                                                                                                                                                                                                                                                      | 2                               | G   |
| Connector No. B63  Connector Name JOINT CONNECTOR-B01  Connector Color GRAY  H.S. Connector Color CRAY  Connector Cron CRAY  Connector Cron CRAY  Connector CRAY  CRAY | Signal Name                | MIRE TO WIRE WHITE    5   4       3   2   1   1   10   9   8   7   6   1   1   10   9   8   7   6   1   1   10   9   8   7   6   1   1   10   9   8   7   6   1   1   10   9   8   7   6   1   1   10   9   8   7   6   1   1   10   9   8   7   6   1   1   10   9   8   7   6   1   1   1   10   9   8   7   6   1   1   1   1   1   1   1   1   1 | Signal Name                     | Н   |
| B63   OINT   DIOR   GRAY   OINT   O   | Color of Wire P            | 0. B140 MHE T Slor WHITE Slor WHITE Slor WHITE Slor Slor Slor Slor Slor Slor Slor Slor                                                                                                                                                                                                                                                               | Color of Wire GR W              | I   |
| Connector No. Connector Color Connector Color H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Terminal No.               | Connector No. B140 Connector Name WIRE TO WIRE Connector Color WHITE  S 4                                                                                                                                                                                                                                                                            | Terminal No. 6 10               | J   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                                                                                                                                                                                                                                                                                                                      |                                 | K   |
| VIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Signal Name                | Connector No. B71 Connector Name FRONT DOOR SWITCH LH Connector Color WHITE                                                                                                                                                                                                                                                                          | Signal Name                     | EXL |
| WIRE TO V WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            | B71 FRONT DC WHITE                                                                                                                                                                                                                                                                                                                                   |                                 | M   |
| Connector No. B54 Connector Name WIRE TO WIRE Connector Color WHITE  H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Terminal No. Color of Wire | Connector No. Connector Color Connector Color                                                                                                                                                                                                                                                                                                        | Terminal No. Color of Wire 3 SB | Ν   |
| Connec<br>Connec<br>Connec<br>H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Temir Temir                | Connec<br>Connec                                                                                                                                                                                                                                                                                                                                     |                                 | 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            | ı                                                                                                                                                                                                                                                                                                                                                    | AALIA2116GB                     | Р   |

| 5                  | RE TO WIRE                  | ITE                   |                                             | Signal Name       | -  |  |
|--------------------|-----------------------------|-----------------------|---------------------------------------------|-------------------|----|--|
| D20                | e WIF                       | MH WH                 |                                             | color of<br>Wire  | В  |  |
| Connector No. D505 | Connector Name WIRE TO WIRE | Connector Color WHITE | 是<br>S.S.                                   | Terminal No. Wire | 1  |  |
|                    |                             |                       | 2 81 72 1                                   |                   |    |  |
|                    | TO WIRE                     | щ                     | 10 9 8 7 6 5 4 3<br>26 25 24 23 22 21 20 19 | Signal Name       | I  |  |
| D501               | WIRE                        | WHIT                  | 30 29 28 27                                 | olor of<br>Vire   | M  |  |
| Connector No. D501 | Connector Name WIRE TO WIRE | Connector Color WHITE | H.S. (28 91) 30                             | Terminal No. Wire | 19 |  |
|                    |                             |                       |                                             |                   |    |  |
|                    | R DOOR SWITCH RH            | TE                    | S   S   S   S   S   S   S   S   S   S       | Signal Name       | ı  |  |
| B142               | le REA                      | r WHI                 |                                             | olor of<br>Wire   | Μ  |  |
| Connector No.      | Connector Name REAR DO      | Connector Color WHITE | H.S.                                        | Terminal No. Wire | 3  |  |

| 2             | BACK DOOR LOCK<br>ASSEMBLY (WITH<br>AUTOMATIC BACK DOOR<br>SYSTEM) | ITE             | 5 6 7 8   | Signal Name       | - | - |
|---------------|--------------------------------------------------------------------|-----------------|-----------|-------------------|---|---|
| D512          |                                                                    | lor WHITE       | - 4       | Color of<br>Wire  | W | В |
| Connector No. | Connector Name                                                     | Connector Color | 南<br>H.S. | Terminal No. Wire | 7 | α |

| D508          | BACK DOOR LOCK<br>ASSEMBLY (WITHOUT<br>AUTOMATIC BACK DOOR<br>SYSTEM) | WHITE           | 4 3 2 1 | f Signal Name     | - | -  |
|---------------|-----------------------------------------------------------------------|-----------------|---------|-------------------|---|----|
|               |                                                                       |                 |         | Color o<br>Wire   | Μ | GR |
| Connector No. | Connector Name                                                        | Connector Color | H.S.    | Terminal No. Wire | 3 | 4  |

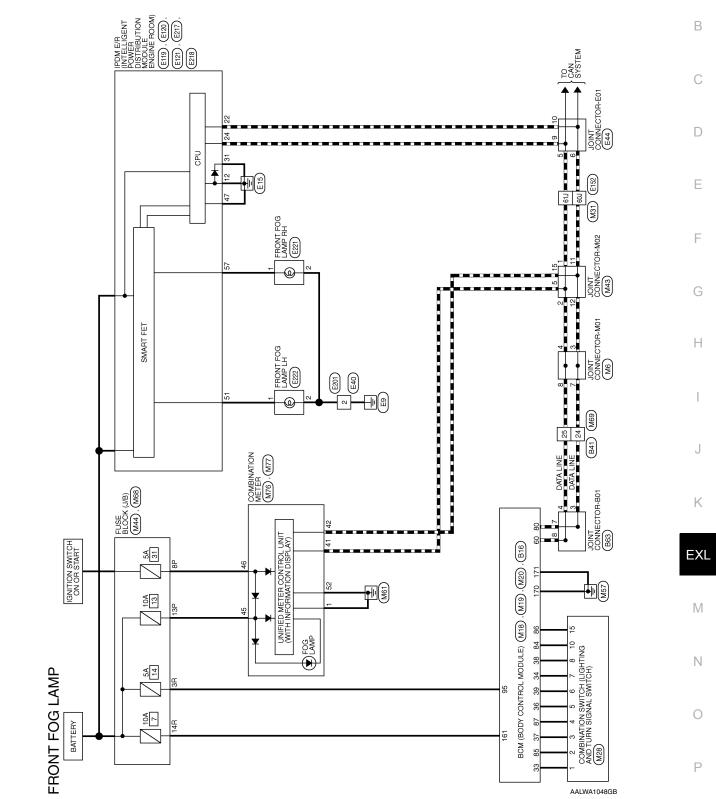
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INFOID:0000000012710531

Α

### FRONT FOG LAMP SYSTEM

Wiring Diagram



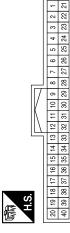


| г    |                   | _                                                                          | 1 |
|------|-------------------|----------------------------------------------------------------------------|---|
|      | 8                 | 101                                                                        |   |
|      | 82                | 05                                                                         |   |
|      | 88                | 83                                                                         |   |
|      | 84 83             | 104                                                                        |   |
|      | 82                | 120 119 118 17 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 |   |
|      | 98                | 106                                                                        |   |
|      | 87                | 107                                                                        |   |
|      | 88 87             | 108                                                                        |   |
| 17   |                   | 109                                                                        |   |
| IV   | 94 93 92 91 90 89 | 110                                                                        |   |
| 11   | 91                | 111                                                                        |   |
|      | 92                | 112                                                                        |   |
|      | 93                | 113                                                                        |   |
|      | 95                | 114                                                                        |   |
|      | 95                | 115                                                                        |   |
|      | 96                | 116                                                                        |   |
|      | 00 99 98 97 96 95 | 117                                                                        |   |
|      | 88                | 118                                                                        |   |
| H.S. | 66                | 119                                                                        |   |
| 個    | 9                 | 120                                                                        |   |
|      |                   |                                                                            | 1 |

|                   |         | _       |         |         |                |
|-------------------|---------|---------|---------|---------|----------------|
| Signal Name       | O CSW 2 | O CSW 1 | O CSW 3 | O CSW 4 | I SHORTING PIN |
| Color of<br>Wire  | BR      | SB      | Ь       | BG      | ۸              |
| Terminal No. Wire | 84      | 98      | 98      | 87      | 96             |

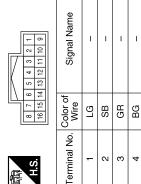
| Signal Name                | ı | ı        | ı  | ı  | ı  |
|----------------------------|---|----------|----|----|----|
| Color of<br>Wire           | 8 | <b>\</b> | >  | BR | Ь  |
| Terminal No. Color of Wire | 9 | 2        | 80 | 10 | 15 |





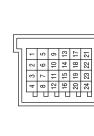
| Signal Name      | I CSW 5 | O CSW 5  | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |
|------------------|---------|----------|---------|---------|---------|---------|
| Color of<br>Wire | LG      | <b>\</b> | ŋ       | GR      | ۸       | Μ       |
| Terminal No.     | 33      | 34       | 36      | 37      | 38      | 39      |

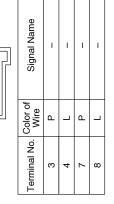
| M28           | COMBINATION SWITCH<br>(LIGHTING AND TURN<br>SIGNAL SWITCH) | WHITE                 |  |
|---------------|------------------------------------------------------------|-----------------------|--|
| Connector No. | Connector Name                                             | Connector Color WHITE |  |





Connector No.





| Connector No.         | M20                            |
|-----------------------|--------------------------------|
| Connector Name        | BCM (BODY CONTROL MODULE)      |
| Connector Color BROWN | BROWN                          |
|                       |                                |
|                       | 167 166 165 164    163 162 161 |
|                       | 1311/411/311/211/11/011031100  |



| Signal Name      | I PWR ECU | I GND1 | I GND2 |
|------------------|-----------|--------|--------|
| Color of<br>Wire | 8         | В      | В      |
| Terminal No.     | 161       | 170    | 171    |

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2

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EXL

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Р

| Connector No. M68 Connector Name FUSE BLOCK (J/B) Connector Color BROWN |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Connector Name FUSE BLOCK (J/B) Connector Color BROWN  This is an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _                                                                       | Connector Color BROWN  TRI 681 581 481 (2007) 181 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 (1918) 181 ( | BROWN BISH 48 ICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                         | ν <sub>i</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Figure 1 Fig |

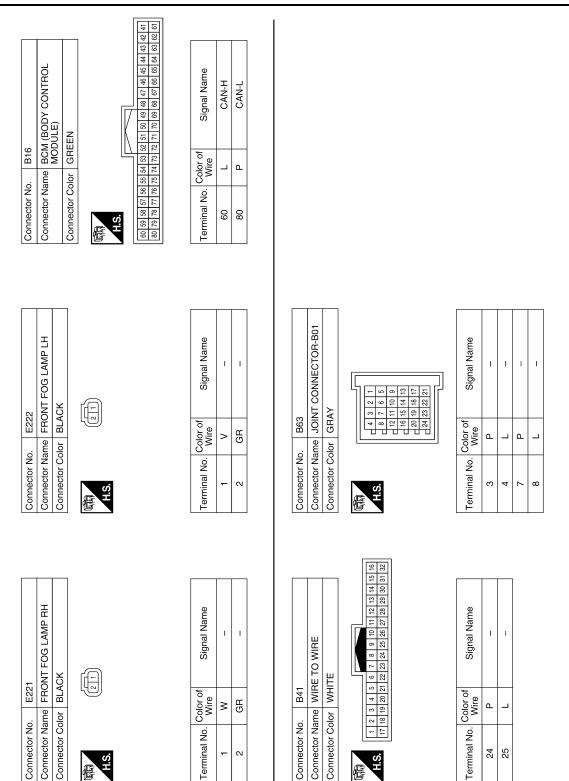
Revision: September 2015 **EXL-183** 2016 Rogue NAM

AALIA2968GB

| Connector No. E40 | COMBINATION METER         Connector Name         WHIE TO WIRE           WHITE         Connector Color         WHITE | (新年 45 46 H.S. H.S. H.S. H.S. H.S. H.S. H.S. H.S                                                   | Signal Name  CAN-H  CAN-L  BAT  COLOr of Signal Name  CAN-L  BAT  CAN-L  BAT | G1       | E/R (INTELLIGENT<br>R DISTRIBUTION<br>LE ENGINE ROOM)                      | Connector Color   GRAY                                                                | Signal Name Terminal No. Color of Signal Name | SIGNAL GROUND 22 P CAN-L | 24 L CAN-H | 31 B 2ND SIGNAL GROUND |        |
|-------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------|------------|------------------------|--------|
| M77               |                                                                                                                     | 41 42 43 47 48 49                                                                                  | Color of Wire L L P L LA/G                                                   | <u>a</u> |                                                                            | GRAY<br>17 16 15                                                                      | Color of<br>Wire                              | В                        | -          |                        |        |
| Connector No.     | Connector Name<br>Connector Color                                                                                   | 原<br>H.S.                                                                                          | Terminal No. (41 42 45 45                                                    | 25       | Connector No.                                                              | Connector Color                                                                       | Terminal No.                                  | 12                       |            |                        |        |
| Connector No. M76 | Connector Name COMBINATION METER Connector Color WHITE                                                              | H.S.  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 25 25 25 25 25 25 25 25 25 25 | Terminal No. Color of Signal Name  1 B GND                                   |          | Connector No. E44 Connector Name JOINT CONNECTOR-E01 Connector Color WHITE | H.S.  4 3 2 1  8 7 6 5  12 11 10 9  16 15 14 13  2 2 23 22 22  2 2 2 2 2 2 2  2 2 2 2 | Terminal No. Color of Signal Name             | - L                      | - Д 9      | - 7 6                  | 10 P – |

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                    | А   |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----|
| Signal Name                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE  STORY SIGNAL OF SIGNAL  SIGNAL OF SIGNAL  LAMPS RH  LAMPS RH         | В   |
| Color of Wire P                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1                                                                                                                  |     |
|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                    | D   |
| Terminal No.<br>60J<br>61J                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Connector Na Connector Na Connector Co                                                                             | Е   |
|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                    |     |
|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                    | F   |
| O WIRE                                                          | 1.1   2.1   3.1   4.1   5.2   4.1   5.2   4.1   5.2   4.1   5.2   4.1   5.2   4.1   5.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2   4.2 | POWER DISTRIBUTION MODULE ENGINE ROOM) BROWN  in of Signal Name re OLIGHT FR FOG LAMPS LH                          | G   |
|                                                                 | 1 121 131 144<br>2 22 23 23 34 44<br>42 1 43 144<br>1 62 1 63 1 64<br>1 72 1 73 1 74 1 74 1 75 1 75 1 75 1 75 1 75 1 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                    | ,   |
| Connector No. Connector Color                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Connector No. Connector Name Connector Color H.S. H.S.                                                             | I   |
| Connector No. Connector Col                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Connector No. Connector Col. H.S. Terminal No. C                                                                   | J   |
|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                    |     |
|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                    | K   |
| IGENT<br>TION<br>ROOM)                                          | ame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ame                                                                                                                | EX  |
| E121 IPDM E/R (INTELLIGE POWER DISTRIBUTIC MODULE ENGINE RC RED | Signal Name POWER GROUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WIRE                                                                                                               |     |
| E121 IPDM E/R POWER D MODULE RED                                | 1 4 4 4 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | WHRE TO WHITE or of fire B                                                                                         | N   |
| Name Name Oolor R                                               | Color of Wire B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Vo. Color of Wire B                                                                                                | N   |
| Connector No.                                                   | H.S. Terminal No. 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Connector No. E201 Connector Name WIRE TO WIRE Connector Color WHITE  A.S.  Terminal No. Color of Signal  2 B  2 B |     |
| <u>ၓ  ၓ  ၓ</u> ႝ                                                | E L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AALIA2969G                                                                                                         | O O |
|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Antinegood                                                                                                         | P   |

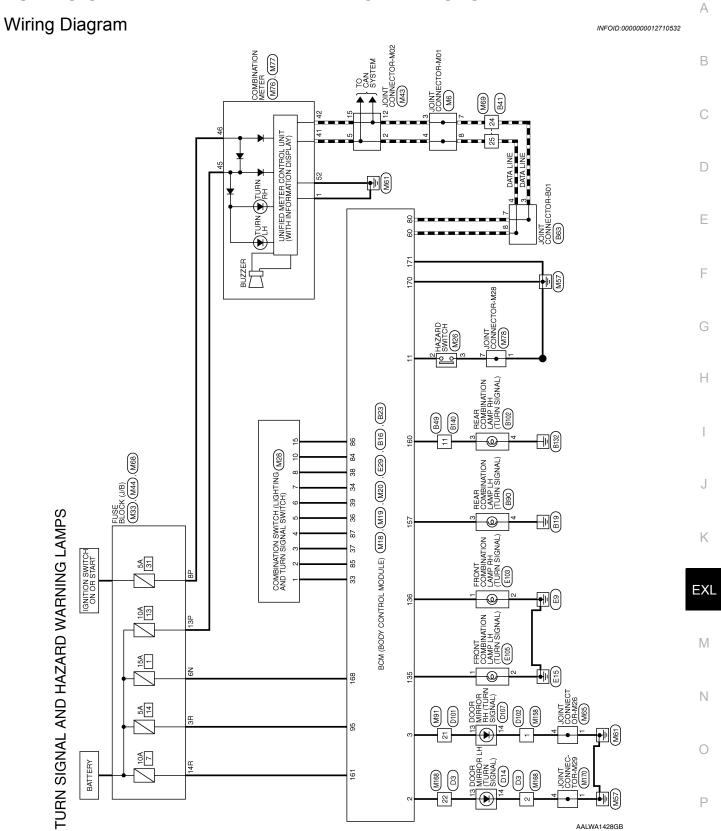
Revision: September 2015 **EXL-185** 2016 Rogue NAM



AALIA2131GB

< WIRING DIAGRAM > [LED HEADLAMP]

### TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM



Connector Name BCM (BODY CONTROL MODULE)

M19

Connector No.

BLACK

Connector Color

GRAY

Connector Color

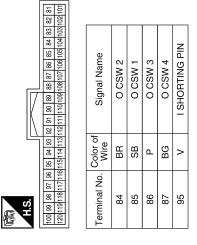
# TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS

| Connector No.       | M6                                 | Connector No.  | M18                              |
|---------------------|------------------------------------|----------------|----------------------------------|
| Connector Name      | Connector Name JOINT CONNECTOR-M01 | Connector Name | Connector Name BCM (BODY CONTROL |
| 700 20100 201000000 | 7400                               |                | ╮                                |

| onnector Name JOINT CONNECTOR-M01 | onnector No. | M6                  |
|-----------------------------------|--------------|---------------------|
| onnector Color GRAY               | ctor Name    | JOINT CONNECTOR-M01 |
|                                   | ector Color  | GRAY                |
|                                   |              |                     |

|           | [ | ī | - | 2 | 6  | 13 | 17 | 51 | Γi |  |
|-----------|---|---|---|---|----|----|----|----|----|--|
|           |   |   | 2 | 9 | 9  | 4  | 18 | 22 | Ш  |  |
| >         |   |   | က | 7 | Ξ  | 15 | 19 | 23 | Ш  |  |
| Æ         |   |   | 4 | ω | 12 | 16 | 20 | 24 | Ш  |  |
| Ō         |   | L |   |   |    |    |    |    | ╽  |  |
| olor GRAY |   |   |   |   |    |    |    |    |    |  |

| 8 7 6 5 12 11 10 9 16 15 14 13 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 17 18 18 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | Signal Name      | - | ı | 1 | ı |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---|---|---|---|
| 10 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                                                                                                                                                                                                        | Color of<br>Wire | Ь | _ | Ь | _ |
| i.S.                                                                                                                                                                                                                                                            | Terminal No.     | 8 | 4 | 2 | 8 |



| Signal Name      | O DI FR LEFT D | O DI FR RIGHT D | I HAZARD SW D | I CSW 5 | O CSW 5 | I CSW 3 | I CSW 4 | I CSW 1 | I CSW 2 |  |
|------------------|----------------|-----------------|---------------|---------|---------|---------|---------|---------|---------|--|
| Color of<br>Wire | LA/G           | LA/Y            | Y             | LG      | Υ       | Э       | GR      | ^       | M       |  |
| Terminal No.     | 2              | 3               | 11            | 33      | 34      | 36      | 37      | 38      | 39      |  |

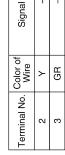
| M26           | Connector Name HAZARD SWITCH | WHITE                 |
|---------------|------------------------------|-----------------------|
| Connector No. | Connector Name               | Connector Color WHITE |

BCM (BODY CONTROL MODULE)

Connector Name Connector No.

M20





| Signal Nar       | - | -  |  |
|------------------|---|----|--|
| Color of<br>Wire | Υ | GR |  |
| Terminal No.     | 2 | 3  |  |

| NMC                     | 187168[185]164[]183[162]161<br>176[175[174[173[17]170[169]168] | Signal Name       | I PWR ECU | I PWR FLASHERS | I GND1 | I GND2 |
|-------------------------|----------------------------------------------------------------|-------------------|-----------|----------------|--------|--------|
| olor BR                 | 176177                                                         | Color of<br>Wire  | Μ         | BG             | В      | В      |
| Connector Color   BROWN | H.S.                                                           | Terminal No. Wire | 161       | 168            | 170    | 171    |
|                         |                                                                |                   |           |                |        |        |

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### TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

[LED HEADLAMP] < WIRING DIAGRAM >

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**EXL-189** Revision: September 2015 2016 Rogue NAM

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| Connector No. M69 Connector Name WIRE TO WIRE Connector Color WHITE | Connector No. M76 Connector Name COMBINATION METER Connector Color WHITE                                              | Connector No. M77 Connector Name COMBI Connector Color WHITE | Connector No. M77  Connector Name COMBINATION METER  Connector Color WHITE |   |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------|---|
| H.S.                                                                | H.S.  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20  21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 | 明<br>H.S.                                                    | 47 48 49 50 51 52                                                          |   |
| No.                                                                 | al No. Color of Sign                                                                                                  | No.                                                          | r of Sig                                                                   |   |
| 24 P – – – – – – – – – – – – – – – – – –                            | 1 B GND                                                                                                               | 41                                                           | L CAN-H                                                                    |   |
|                                                                     |                                                                                                                       | 45                                                           | LA/G BAT                                                                   |   |
|                                                                     |                                                                                                                       | 46                                                           | LA/BR IGN                                                                  |   |
|                                                                     |                                                                                                                       | 52                                                           | В (G1                                                                      |   |
|                                                                     |                                                                                                                       |                                                              |                                                                            |   |
| Connector No. M78                                                   | Connector No. M91                                                                                                     | Connector No.                                                | M158                                                                       |   |
| Connector Name JOINT CONNECTOR-M28 Connector Color WHITE            | Connector Name WIRE TO WIRE Connector Color WHITE                                                                     | Connector Name WIRE T                                        | Connector Name WIRE TO WIRE Connector Color WHITE                          |   |
| H.S.                                                                | H.S. 13 14 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 24                                                     | 是<br>H.S.                                                    | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16                                     |   |
|                                                                     |                                                                                                                       |                                                              |                                                                            |   |
| Terminal No. Color of Wire Signal Name                              | Terminal No. Color of Signal Name Wire                                                                                | Terminal No.                                                 | Color of Signal Name Wire                                                  |   |
|                                                                     |                                                                                                                       |                                                              |                                                                            | Γ |

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### TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM > [LED HEADLAMP]

| Connector No. M168 Connector Name WIRET Connector Color WHITE | Connector No. M168 Connector Name WIRE TO WIRE Connector Color WHITE |       | Connector No. M170 Connector Name JOINT ( Connector Color WHITE | Vo. M170 Vame JOINT | Connector No. M170 Connector Name JOINT CONNECTOR-M29 Connector Color WHITE |   | Connector No.                    | ame BCM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Connector No. E29  Connector Name BCM (BODY CONTROL MODULE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OL                       |     |
|---------------------------------------------------------------|----------------------------------------------------------------------|-------|-----------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------|---|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|
| H.S.                                                          | 1 2 3 4 5 6 7 8 9 10 11   13 14 15 16 17 18 19 20 21 22 23           | 22 24 | 是<br>H.S.                                                       | 8 7 6 5             | 2   4   3   5   1                                                           |   | H.S.                             | 132   31   52 ACK   132   131   134   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   141   144   143   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 122 121<br>134 133       |     |
| Terminal No.                                                  | Color of Signal Name                                                 | ıme   | Terminal No.                                                    | Color of Wire       | Signal Name                                                                 |   | Terminal No.                     | Color of<br>Wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ne                       |     |
| 2                                                             | В                                                                    |       | -                                                               | В                   | ı                                                                           |   | 135                              | BB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DI FR LEFT E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ш                        |     |
| 22                                                            | LA/G                                                                 |       | 4                                                               | 8                   | 1                                                                           |   | 136                              | GR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | O DI FR RIGHT E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H                        |     |
|                                                               |                                                                      |       |                                                                 |                     |                                                                             | Г |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |     |
| Connector No.                                                 | Connector No. E103  Connector Name FRONT COMBINATION LAMP RH         | NOI   | Connector No.                                                   | Vo. E105 Name FRON  | Connector Name FRONT COMBINATION LAMP LAMP LAMP LAMP LAMP LAMP LAMP LAMP    |   | Connector No.                    | o. B16<br>ame BCM<br>MOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Connector No. B16 Connector Name BCM (BODY CONTROL MODULE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | OL                       |     |
| Connector Color                                               | or GRAY                                                              |       | Connector Color                                                 | Color GRAY          | <u> </u>                                                                    |   | Connector Color                  | olor GREEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ,<br>NEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |     |
| E H                                                           | (2)<br>(3)                                                           |       | 原<br>H.S.                                                       |                     | (S) (L) (S)                                                                 |   | ·S.H                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |     |
|                                                               |                                                                      |       |                                                                 |                     |                                                                             |   | 60 59 58 57 56<br>80 79 78 77 76 | 55 54 53 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60         59         58         67         56         55         56         55         51         50         60         68         67         44         43         42         44         43         42         41         43         42         41         43         42         41         43         42         41         43         42         41         43         42         41         43         42         41         43         42         41         43         42         41         43         42         43         42         43         42         43         42         43         43         42         44         43         42         44         43         43         43         43         44         43         43         43         44         43         43         43         44         43         43         44         43         43         44         43         43         44         43         43         44         43         43         44         43         43         44         43         43         44         43         43         44         43         43         44         43         43         44< | 45 44 43 4<br>65 64 63 6 | 2 2 |
| Terminal No.                                                  | Color of Signal Name                                                 | me    | Terminal No.                                                    | Color of Wire       | Signal Name                                                                 |   | Terminal No.                     | Color of<br>Wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ne                       |     |
| -                                                             | GR                                                                   |       | -                                                               | BB                  | 1                                                                           |   | 09                               | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CAN-H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |     |
| 2                                                             | BB -                                                                 |       | 2                                                               | В                   | 1                                                                           |   | 80                               | ۵                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CAN-L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |     |
|                                                               |                                                                      |       |                                                                 |                     |                                                                             |   |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |     |
|                                                               |                                                                      | ſ     |                                                                 |                     |                                                                             |   |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |     |
| N<br>O                                                        | M                                                                    | K     | J                                                               | I                   | G<br>H                                                                      | F | Е                                | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | С                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | В                        |     |

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| Connector No. B49 Connector Name WIRE TO WIRE Connector Color WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Terminal No. Color of Wire Signal Name     | Connector No. B102 Connector Name REAR COMBINATION LAMP RH Connector Color WHITE                                                   | Terminal No.   Color of   Signal Name   Wire | 3 LA/V – | 4 B -    |   |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|---|---|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Termin 1                                   | Conne                                                                                                                              | Termir                                       |          |          |   |   |
| ETO WIRE  TE  TE  TE  TE  TE  TE  TE  TE  TE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Signal Name                                | B90 LAMP LH WHITE  ### A To                                                                     | Signal Name                                  | 1        | 1        |   |   |
| Connector No. B41  Connector Name WIRE TO WIRE  Connector Color WHITE  Tile 19 20 21 22 23 24 25 4 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 25 24 25 25 24 25 25 24 25 25 24 25 25 24 25 25 24 25 24 25 25 24 25 25 24 25 25 24 25 25 24 25 25 25 24 25 25 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | No. Color of Wire                          |                                                                                                                                    | No. Color of Wire                            | GR       | В        |   |   |
| Connector No. Connector Color Connector Color H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Terminal No. 24 25                         | Connector No. Connector Name Connector Color                                                                                       | Terminal No.                                 | က        | 4        |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                                                                                                                    |                                              |          | <u> </u> |   |   |
| B23  BCM (BODY CONTROL MODULE)  GRAY  [51 50 149 148   147 148 148   E0 159 159 155 153 153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Signal Name O DI RR LEFT B O DI RR RIGHT B | Connector No. B63  Connector Name JOINT CONNECTOR-B01  Connector Color GRAY  H.S.    4   3   2   1   1   1   1   1   1   1   1   1 | Signal Name                                  | 1        | ı        | 1 | ı |
| Vo. B23  Name BCM (I MODU  Color GRAY  ISTITEORIAN  IEODISSIEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Color of Wire GR                           | Vo. B63  Vame JOINT  Color GRAY  (A 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                          | Color of Wire                                | ۵        | _        | Ь | 7 |
| Connector No. Connector Name Connector Color H.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Terminal No. 157 160                       | Connector No. Connector Color Line H.S.                                                                                            | Terminal No.                                 | က        | 4        | 7 | ∞ |

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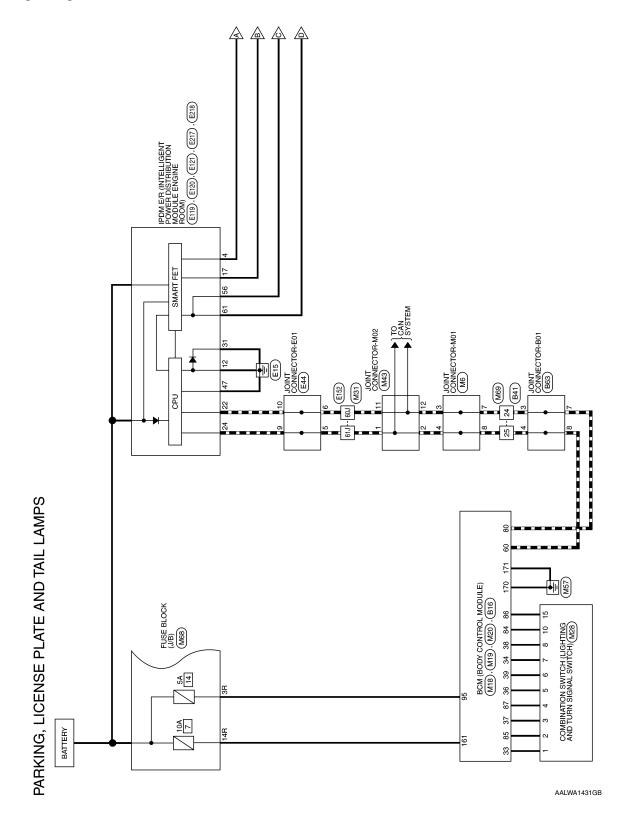
### TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

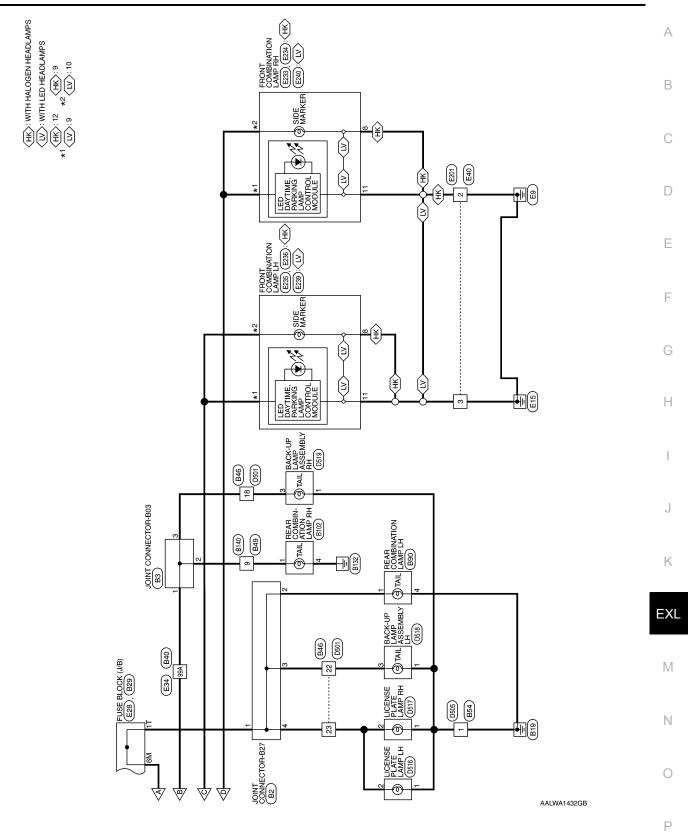
< WIRING DIAGRAM > [LED HEADLAMP]

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                                                                                          |                         | Α   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------|-------------------------|-----|
| <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Signal Name             | # F-9                                                                                    | Signal Name             | В   |
| DOOR MIRROR WHITE    1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Signa                   | D107 D00R MIRROR WHITE  WHITE  8 7 6 5 4 3 2 16 15 14 13 12 11 10                        | Signa                   | С   |
| 1 1 2 1 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Color of Wire LA/G LA/B |                                                                                          | Color of Wire LA/G LA/B | D   |
| Connector No. Connector Cold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Terminal No.            | Connector No. Connector Colo                                                             | Terminal No.            | Е   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                                                                                          |                         | F   |
| 16 13 2 1 13 13 14 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Signal Name             |                                                                                          | Signal Name             | G   |
| Connector No. D3  Connector Name WIRE TO WIRE  Connector Color WHITE  TO THE TO WIRE  TO THE TO WIRE  TO THE TO TH |                         | Connector No. D102  Connector Name WIRE TO WIRE  Connector Color WHITE  T 6 5 4          |                         | Н   |
| Connector Name WIRE T Connector Color WHITE  THIS  THIS  THIS  THIS  TO THIS   | No. Color of Wire LA/B  | Connector No. D102 Connector Name WIRE T Connector Color WHITE  T 6 5 4 T6 13 14 13 H.S. | No. Color of Wire       | I   |
| Connector No. Connector Cold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Terminal No.            | Connector No. Connector Colo                                                             | Terminal No.            | J   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                                                                                          |                         | K   |
| - ω                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Signal Name             | 16 15 14 13 14 13                                                                        | Signal Name             | EXL |
| Connector No. B140 Connector Name WIRE TO WIRE Connector Color WHITE  S 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         | O WIRE                                                                                   |                         | M   |
| No. B140 Name WIRE T Color WHITE    S 4   C     12   11   11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vo. Color of Wire LA/V  | Connector No. D101 Connector Name WIRE T Connector Color WHITE                           | Vo. Color of Wire LA/G  | Ν   |
| Connector No. Connector Color Connector Color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Terminal No.            | Connector No. Connector Colc                                                             | Terminal No.            | 0   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         | I                                                                                        | AALIA2239GB             | Р   |

Revision: September 2015 **EXL-193** 2016 Rogue NAM

Wiring Diagram





Connector Name BCM (BODY CONTROL MODULE)

M19

Connector No.

BLACK

Connector Color

## PARKING, LICENSE AND TAIL LAMPS CONNECTORS

| 1    |    |       |             |    |                     |          |
|------|----|-------|-------------|----|---------------------|----------|
|      | M6 | 9     |             |    |                     | Connecto |
| l an | ַ  | ह     | =           | 8  | JOINT CONNECTOR-M01 | Connecto |
| Ι.   | മ  | GRAY  | ∣≿          |    |                     |          |
| I    |    |       |             |    |                     | Connecto |
|      |    |       |             | 5  |                     |          |
| П    |    |       |             | П  |                     |          |
|      | 4  | က     | 2           | -  |                     |          |
| - Ш  | 8  | 7     | 9           | 2  |                     | O E      |
|      | 12 | 12 11 | 유           | 6  |                     | Ġ.       |
|      | 9  | 2     | 16 15 14 13 | 13 |                     | 00 40    |

| Connector Name JOINT CONNECTOR-M01 | 47              | 2 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Signal Name      | ı | ı | 1 | ı |
|------------------------------------|-----------------|-----------------------------------------|------------------|---|---|---|---|
| Ime JOI                            | lor GRAY        | 8 7 7 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Color of<br>Wire | ۵ | _ | ۵ | _ |
| Connector Na                       | Connector Color | 用.S.                                    | Terminal No.     | င | 4 | 7 | 8 |

|   |       |                                                                                 | 1 |                   |         |         |         |         |              |
|---|-------|---------------------------------------------------------------------------------|---|-------------------|---------|---------|---------|---------|--------------|
|   | 81    | 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 |   |                   |         |         |         |         |              |
| Į | 82    | 102                                                                             |   |                   |         |         |         |         |              |
| ı | 83    | 103                                                                             |   |                   |         |         |         |         |              |
| ı | 84    | 104                                                                             |   |                   |         |         |         |         | -            |
| I | 85    | 105                                                                             |   | Ф                 |         |         |         |         | ≣            |
| I | 86    | 106                                                                             |   | ar                | 12      |         | 3       | 7 4     | [말           |
| ı |       | 107                                                                             |   | Ž                 | 8       | %       | %       | 8       | ≧            |
| I | 88 87 | 108                                                                             |   | nal               | O CSW 2 | O CSW 1 | O CSW 3 | O CSW 4 | ا <u>ش</u> ا |
| 1 | 89    | 109                                                                             |   | Signal Name       | 0       | 0       | 0       | 0       | SHORTING PIN |
| ı | 90    | 110                                                                             |   | 0)                |         |         |         |         | <u> </u>     |
| ı | 91    | Ξ                                                                               |   |                   |         |         |         |         | –            |
| İ |       | 12                                                                              |   |                   |         |         |         |         |              |
| 1 | 93 92 | 13                                                                              |   | Jo e              |         |         |         |         |              |
| İ | 94    | 14                                                                              |   | ş                 | BR      | SB      | ▄       | BG      | >            |
| İ |       | 12.                                                                             |   | ც>                | _       | **      |         | _       |              |
| ı | 96 95 | 16                                                                              |   |                   |         |         |         |         |              |
| İ | 26    | 11                                                                              |   | ž                 |         |         |         |         |              |
| İ | 86    | 8                                                                               |   | שר                | 84      | 85      | 98      | 87      | 92           |
| ı | 66    | 61                                                                              |   | Ē                 | 8       | ۳       | ∞       | 8       | ်"           |
| ı | 00    | 8                                                                               |   | Terminal No. Wire |         |         |         |         |              |
| Ľ | _     | _                                                                               | ] | _                 |         |         |         |         | Ш            |

| Signal Name      | I CSW 5 | O CSW 5 | E MSO I | I CSW 4 | I CSW 1 | I CSM 2 |
|------------------|---------|---------|---------|---------|---------|---------|
| Color of<br>Wire | LG      | Y       | Э       | GR      | ^       | Μ       |
| Terminal No.     | 33      | 34      | 36      | 37      | 38      | 39      |

|  | M28           | COMBINATION SWITCH Connector Name (LIGHTING AND TURN SIGNAL SWITCH) |
|--|---------------|---------------------------------------------------------------------|
|  | Connector No. | Connector Name                                                      |

Connector Name BCM (BODY CONTROL MODULE)

M20

Connector No.

Connector Color BROWN

Signal Name

Color of Wire

G ≥

9

BR

℩

>

ω 9 15



| 8 7 6 5 4 3 2 1 | Signal Name      | -  | 1  | ı  | ı  |
|-----------------|------------------|----|----|----|----|
| 8 7 6 16 15 14  | Color of<br>Wire | ГВ | SB | GR | BG |
| (听到<br>H.S.     | Terminal No.     | 1  | 2  | က  | 4  |

| T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7 -=         | olgiai naile  | ı  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----|
| WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHITE   WHIT | lor WH       | Wire LG SB GR | BG |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Connector Co |               | 4  |

| Signal Name      | I PWR ECU | I GND1 | I GND2 |
|------------------|-----------|--------|--------|
| Color of<br>Wire | 8         | В      | В      |
| Terminal No.     | 161       | 170    | 171    |

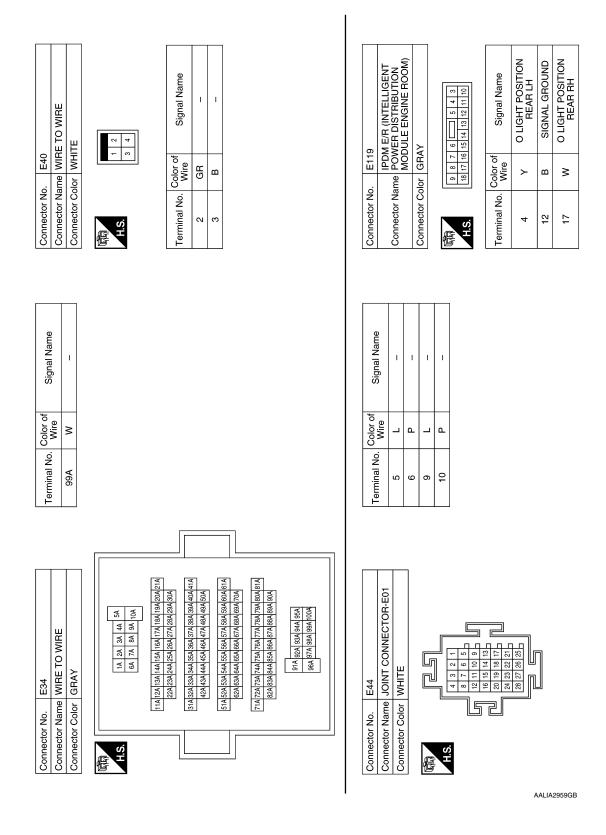
AALIA2957GB

< WIRING DIAGRAM > [LED HEADLAMP]

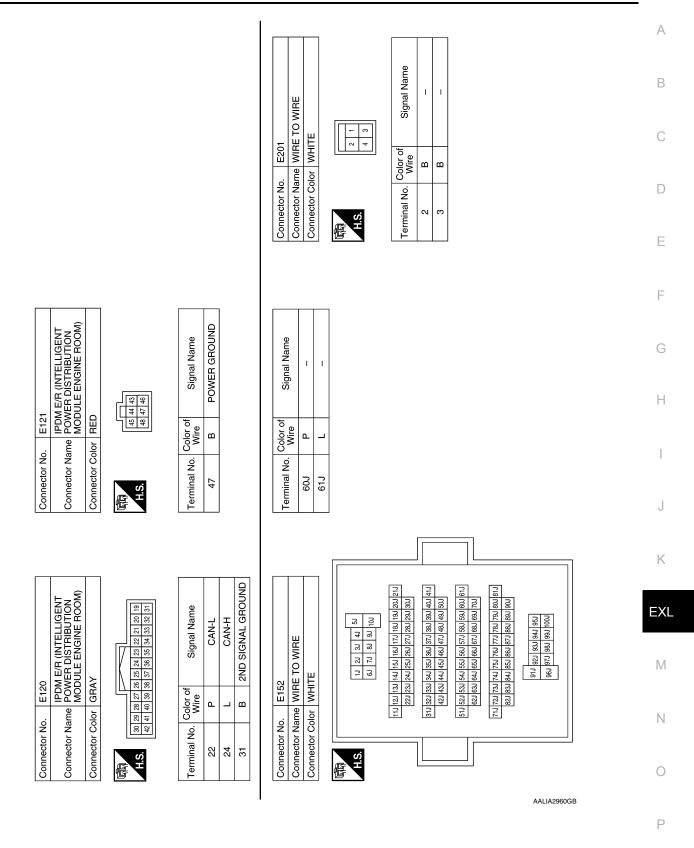
| Connector No. M43  Connector Name JOINT CONNECTOR-M02  Connector Color BLUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Connector No. E28  Connector Name FUSE BLOCK (J/B)  Connector Color WHITE  AM 3M COLOR 1M SM TM 6M SM  Terminal No. Wire Signal Name  6M Y -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A B C D    |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F          |
| Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2. M69 ame WIRE TO WIRE blor WHITE   State   S | G          |
| Terminal No. Color of Wire 60J P 61J L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ctor NC Ctor NC NC NC NC NC NC NC NC NC NC NC NC NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1          |
| Termina 600 601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Connec | J          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K          |
| WIRE TO WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>EXL</b> |
| 0. M31 ame WIRE 1 loor WHITE look WHITE awa 23/28/28 awa 23/38/38 fix1 awa 33/38/38 | M68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | N          |
| Connector No. M31  Connector Name WIRE TO WIRE  Connector Color WHITE  Sold 44 34 24 34 34 34 34 34 34 34 34 34 34 34 34 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Connector No. M68 Connector Name FUSE BLOCK (J/B) Connector Color BROWN Terminal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Signal No. Wire Sign | 0          |
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< WIRING DIAGRAM >

[LED HEADLAMP]



< WIRING DIAGRAM > [LED HEADLAMP]



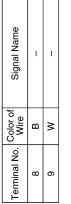
Revision: September 2015 EXL-199 2016 Rogue NAM

< WIRING DIAGRAM >

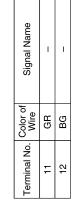
[LED HEADLAMP]

| Connector No.         | E233                                            |
|-----------------------|-------------------------------------------------|
| Connector Name        | Connector Name LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Color BLACK | BLACK                                           |
|                       |                                                 |

| ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( | Signal Name      | ı | 1 |
|---------------------------------------|------------------|---|---|
|                                       | Color of<br>Wire | В | W |
| , vi                                  | inal No.         | 8 | 9 |



| Connector No.        | E236                                            |
|----------------------|-------------------------------------------------|
| Connector Name       | Connector Name LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Color GRAY | GRAY                                            |
|                      |                                                 |

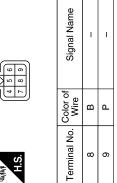


| Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE | Connector No.   E218 |
|-----------------------------------------------------------------------------|----------------------|
|-----------------------------------------------------------------------------|----------------------|



| Signal Name      | O LIGHT CLEARANCE<br>FR RH |  |
|------------------|----------------------------|--|
| Color of<br>Wire | GR                         |  |
| erminal No.      | 61                         |  |

| r No. E235    | FRONT COMBINATION Connector Name LAMP LH (WITH HALOGEN HEADLAMPS) | Sonnector Color BLACK |
|---------------|-------------------------------------------------------------------|-----------------------|
| Connector No. | Sonnector                                                         | Connector             |



| E217          | Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) | BROWN                 |  |
|---------------|-------------------------------------------------------|-----------------------|--|
| Connector No. | Connector Name                                        | Connector Color BROWN |  |





| E234          | Connector Name LAMP RH (WITH HALOGEN HEADLAMPS) | GRAY                 |  |
|---------------|-------------------------------------------------|----------------------|--|
| Connector No. | Connector Name                                  | Connector Color GRAY |  |





| Signal Nam       | _  | ı  |  |
|------------------|----|----|--|
| Color of<br>Wire | GR | GR |  |
| Terminal No.     | 11 | 12 |  |

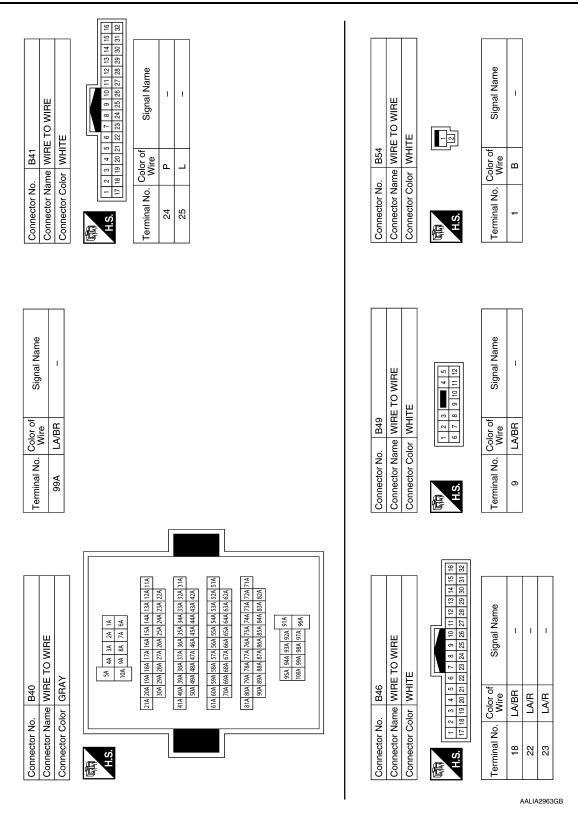
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< WIRING DIAGRAM > [LED HEADLAMP]

| Connector No. B2 Connector Name JOINT CONNECTOR-B27 Connector Color WHITE                 | Terminal No. Color of Signal Name  1 LA/R -  2 LA/R -  3 LA/R -  4 LA/R - | Connector No. B29 Connector Name FUSE BLOCK (J/B) Connector Color WHITE  Terminal No. Wire Signal Name  1T LA/R -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                           |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| E240 FRONT COMBINATION HEADLAMPS) BLACK  (4   5   6   7   8   9   10   11                 | Signal Name                                                               | B16   MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE    MODULE   |  |
| nector No.                                                                                | Terminal No. Color of Wire 9 GR 10 W 11 B                                 | Nector No.   Nector Name   Nector Name   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector Color   Nector C |  |
|                                                                                           | Ten                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| FRONT COMBINATION HEADLAMPS) BLACK  (4 5 6 7 7 8 9 10 11)                                 | Signal Name                                                               | Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Connector No. E239 FRONT Connector Name HEADLA Connector Color BLACK H.S. (4 5 6 6 8 9 10 | Terminal No. Color of Wire 9 BG 10 P 11 B                                 | Connector Name   JOINT CONNECTOR-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |

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< WIRING DIAGRAM > [LED HEADLAMP]



< WIRING DIAGRAM > [LED HEADLAMP]

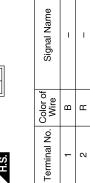
| Connector No. B102 Connector Name REAR COMBINATION LAMP RH Connector Color WHITE  Terminal No. Color of Signal Name  1 LA/BR    | 4         B         -           Connector No.         D505           Connector Name         WIRE TO WIRE           Connector Color         WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Terminal No. Color of Wire 1 B -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A B C D     |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Connector No. B90 Connector Name REAR COMBINATION LAMP LH Connector Color WHITE  Terminal No. Color of Signal Name  1 LA/R -    | A   B   -     Connector No.   D501   Connector Name   WIRE TO WIRE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector | Terminal No. Wire Signal Name  18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | F<br>G<br>H |
| Connector No. B63 Connector Name JOINT CONNECTOR-B01 Connector Color GRAY  H.S.   4   3   2   1   1   1   1   1   1   1   1   1 | 4         L         -           7         P         -           8         L         -           Connector Name         B140           Connector Name         WIRE TO WIRE           Connector Color         WHITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name | K EXL M N   |
|                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Р           |

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| Connector No.         | . D518           | 8                                       |
|-----------------------|------------------|-----------------------------------------|
| Connector Na          | me BAC           | Connector Name BACK-UP LAMP ASSEMBLY LH |
| Connector Color WHITE | lor WHI          | <u> </u>                                |
| 原<br>H.S.             |                  |                                         |
| Terminal No.          | Color of<br>Wire | Signal Name                             |

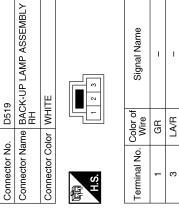
| or Color WHITE                                           | 1 2 3     | No. Color of Signal Nar Wire | - GR | - LA/Y |
|----------------------------------------------------------|-----------|------------------------------|------|--------|
| Connector Name BACK-UP LAMP ASS LH Connector Color WHITE | 原<br>H.S. | Terminal No.                 | 1    | 8      |

| 2 e | Connector No. D517 |  | ne LICENSE PLATE LAMP RH<br>or BROWN |
|-----|--------------------|--|--------------------------------------|
|-----|--------------------|--|--------------------------------------|



| 9             | Connector Name LICENSE PLATE LAMP LH | NMO                   |      | Signal Name      | 1 |
|---------------|--------------------------------------|-----------------------|------|------------------|---|
| . D516        | me LICE                              | lor BRC               |      | Color of<br>Wire | В |
| Connector No. | Connector Na                         | Connector Color BROWN | 用.S. | Terminal No.     | 1 |

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### STOP LAMP

Wiring Diagram

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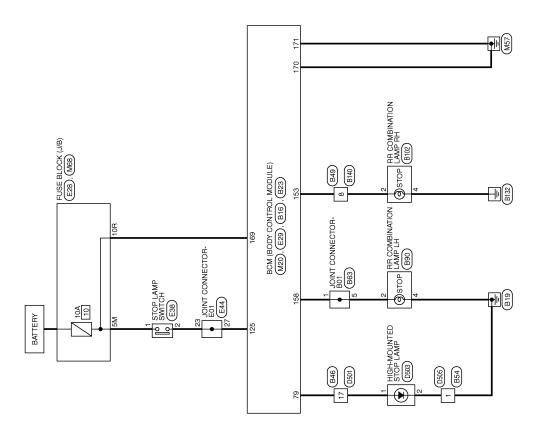
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STOP LAMP

Connector Name FUSE BLOCK (J/B)

Connector Name FUSE BLOCK (J/B)

Connector No. M68

Connector Color BROWN

E28

Connector No.

Connector Color WHITE

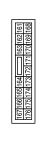
4M 3M C 3M 1M 10M 9M 8M 7M 6M 5M

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### STOP LAMP CONNECTORS

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





| 167166165164 — 1163162161<br>1761751741731721771170169168 | Signal Name      | I PWR STOP LAMP | I GND1 | 00,40 |
|-----------------------------------------------------------|------------------|-----------------|--------|-------|
| 176175                                                    | Color of<br>Wire | GR              | В      | ٥     |
| 斯<br>H.S.                                                 | Terminal No.     | 169             | 170    | 7177  |

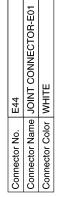


| Color of Wire      |
|--------------------|
|                    |
| Terminal No.<br>5M |

| Signal Name      | ı   |  |
|------------------|-----|--|
| Color of<br>Wire | GR  |  |
| erminal No.      | 10R |  |

| Color of<br>Wire<br>GR |  |
|------------------------|--|
| Terminal No.           |  |

| Signal Name               | I PWR STOP LAMP | I GND1 | I GND2 |  |
|---------------------------|-----------------|--------|--------|--|
| Color of<br>Wire          | ВĐ              | В      | В      |  |
| erminal No. Color of Wire | 169             | 170    | 171    |  |



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

Connector Name STOP LAMP SWITCH

Connector Name | BCM (BODY CONTROL | MODULE)

E29

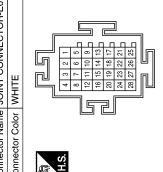
Connector No.

Connector Color BLACK

E38

Connector No.

Connector Color WHITE



| Signal Name     | _ | _  |
|-----------------|---|----|
| olor of<br>Wire | > | ГG |

Terminal No.

N

Signal Name

Color of Wire

Terminal No.

2 2

23



3 4

|       | 12  | 8   | ] |
|-------|-----|-----|---|
|       | 122 | 134 | l |
|       | 123 | 135 | l |
|       | 124 | 136 | l |
| - 117 | 125 | 137 | l |
| IV    | 126 | 138 | l |
| - 11  | 127 | 139 | l |
|       | 128 | 140 | l |
|       | 129 | 141 | l |
|       | 130 | 142 |   |
|       | 131 | 143 |   |
|       | 132 | 144 | l |



| Signal Name      | I BRAKE SW2 |
|------------------|-------------|
| Color of<br>Wire | LG          |
| Ferminal No.     | 125         |

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| Connector No. BS4 Connector Name BCM (BODY CONTROL Connector Color GRAY  Terminal No. Color of Signal Name  158 LAW O STOP LAMP Connector No. BS4 Connector No. BS4 Connector No. BS4 Connector No. BS4 Connector No. White Connector No. White Terminal No. Color of Signal Name  1 B B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | E         | LAY      | Color of Signal Name Wire | 4 3 2 1 1 10 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Connector Name JUIN I CONNECTOR-B01  Connector Color GRAY | . B63         | LA/W –                                     | Color of Signal Name |                         | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 26 27 28 29 30 31 32 | lor  WHITE                              | Connector Name WIRE TO WIRE              | . B46         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------------------------|----------------------------------------------|-----------------------------------------------------------|---------------|--------------------------------------------|----------------------|-------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|---------------|
| Connector Name BCM (BK)  LAW  Terminal No. Color of Terminal No. Color of Terminal No. Color of Wire  Connector Name WIRE TO Connector Color WHITE  Terminal No. Color of Terminal No. Color of Terminal No. Wire  Terminal No. Color of Terminal No. Wire  Terminal No. Color of Terminal No. Wire  Terminal No. Wire  Terminal No. Wire  Terminal No. Wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | E         | - ω      |                           | H.S.                                         | Connector Name JOINT                                      | Connector No. | 17                                         |                      | -                       | ςί.                                                                                 | Connector Co                            | Connector Na                             | Connector No. |
| Connector Name BCM (BRAY Connector Name BCM (BRAY Connector Color GRAY H.S. LAW TES LAW TES Connector Name WIRE TO Connector Name WIRE TO Connector Color WHITE TO Connector Color WHITE TO Connector Color Wire TO Connector Color Wire TO Connector Color Wire TES Connector Color Wire TES TERMINAL No. Color of Terminal No. Color of Terminal No. Wire TES TES TES TES TES TES TES TES TES TES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | F         |          |                           |                                              |                                                           |               | - o m                                      |                      |                         |                                                                                     |                                         |                                          |               |
| 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ( )<br> - |          | Signal Name               |                                              |                                                           | L             | O STOP LAMP<br>O STOP LAMP<br>2 NISSAN EUF | Signal Name          |                         | 148   147  146  145<br>  157  156  155  154  153  152                               | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | BODY CONTROL                             |               |
| 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <u> </u> | Color of Wire B           |                                              | ame WIRE                                                  | ). B54        | LA/W                                       |                      |                         | 151150148<br>160159158                                                              | olor GRAY                               | ame BCM (                                |               |
| NTROL Name Name Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ·         | -        | Terminal No.              | H.S.                                         | Connector Na                                              | Connector No  | 153                                        | Terminal No.         | H.S.                    |                                                                                     | Connector Co                            | Connector Na                             | Connector N   |
| Name Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ŀ         |          |                           |                                              |                                                           |               |                                            |                      | 42 41<br>62 61          | 1                                                                                   |                                         |                                          |               |
| Signal Signal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | E         | 1        | Signal Name<br>-          | 4 =                                          | WIKE                                                      | L             | O STOP LAMP 3                              | Signal Name          | 49 48 47 46 69 68 67 66 |                                                                                     |                                         | Connector Name BCM (BODY CONTROL MODULE) |               |
| B16   MODULE)   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MOD   | 1\        | ×.       |                           | 7 8 3                                        | WIRE IO                                                   | B49           |                                            |                      | 53 52 51                |                                                                                     | GREEN                                   | BCM (BOD<br>MODULE)                      | B16           |
| Connector No. B16  Connector Name BCM (BODY CO MODULE)  Connector Color GREEN  H.S. Connector No. B49  Connector No. B49  Connector No. B49  Connector Name WIRE TO WIRE  Connector Color of Signa Nine R.S. Signa Nine R.S. Signa Nine R.S. Signa Nine R.S. Signa Nine R.S. Signa Signa Nine R.S. Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Signa Sig | 1         |          |                           |                                              | ctor Name                                                 | ctor No.      |                                            | al No. Cok           | 57 76                   |                                                                                     | ctor Color                              | ctor Name                                | ctor No.      |
| Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Connector No Conne | (         | 8        | Termin 8                  | H.S.                                         | Conne                                                     | Conne         | 22                                         | Termin               | H.S.<br>80 79 5         |                                                                                     | Conne                                   | Conne                                    | Conne         |

| Connector No. B90          | lo. B90          |                                         | Connector No. B102         | o. B102          | 01                                      | Connector No. B140          | o. B140          |                                               |
|----------------------------|------------------|-----------------------------------------|----------------------------|------------------|-----------------------------------------|-----------------------------|------------------|-----------------------------------------------|
| Connector N                | lame RE/<br>LAN  | Connector Name REAR COMBINATION LAMP LH | Connector N                | ame REA<br>LAM   | Connector Name REAR COMBINATION LAMP RH | Connector Name WIRE TO WIRE | ame WIRE         | E TO WIRE                                     |
| Connector Color WHITE      | color WH         | ІТЕ                                     | Connector Color WHITE      | olor WHI         | TE                                      |                             |                  | !                                             |
| H.S.                       |                  | 4 3 2 1                                 | 赋<br>H.S.                  |                  | 8 3 2 1                                 | 图<br>H.S.                   | 5 11 4 11        | 8 3 7 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Terminal No. Color of Wire | Color of<br>Wire | Signal Name                             | Terminal No. Color of Wire | Color of<br>Wire | Signal Name                             | Terminal No. Color of Wire  | Color of<br>Wire | Signal Name                                   |
| Ø                          | LA/Y             | 1                                       | 2                          | LAY              | 1                                       | 80                          | LAY              | ı                                             |
| _                          | a                |                                         | _                          | ۵                |                                         |                             |                  |                                               |

|                    |                                  |                       |                       |                               | Ф                              |   |   |
|--------------------|----------------------------------|-----------------------|-----------------------|-------------------------------|--------------------------------|---|---|
| 05                 | RE TO WIRE                       | #TE                   |                       | -2                            | Signal Name                    | 1 |   |
| D2                 | me WI                            | lor WH                | $\frac{1}{1}$         |                               | Color o<br>Wire                | В |   |
| Connector No. D505 | Connector Name WIRE TO WIRE      | Connector Color WHITE |                       | H.S.                          | Terminal No. Wire              | - |   |
|                    |                                  |                       |                       |                               |                                |   |   |
| 03                 | Connector Name HIGH-MOUNTED STOP | MP                    | HTE                   | 2                             | Signal Name                    | 1 | 1 |
| D2(                | me HIC                           | LAI                   | lor WF                |                               | Color of<br>Wire               | > | ۳ |
| Connector No. D503 | Connector Na                     |                       | Connector Color WHITE | H.S.                          | Terminal No.   Color of   Wire | - | ٥ |
|                    |                                  |                       | 7                     | 20 19 18 17                   |                                |   | ] |
| 01                 | Name WIRE TO WIRE                | <br>                  |                       | 29 28 27 28 25 24 23 22 27 20 | Signal Name                    | 1 |   |
| o. D501            | ame WI                           | r Color WHITE         |                       | 16 15 14 13<br>32 31 30 29    | No. Color of Wire              | > |   |
| or No.             | Z N                              | 2                     |                       |                               | No.                            |   |   |

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### **BACK-UP LAMP**

Wiring Diagram

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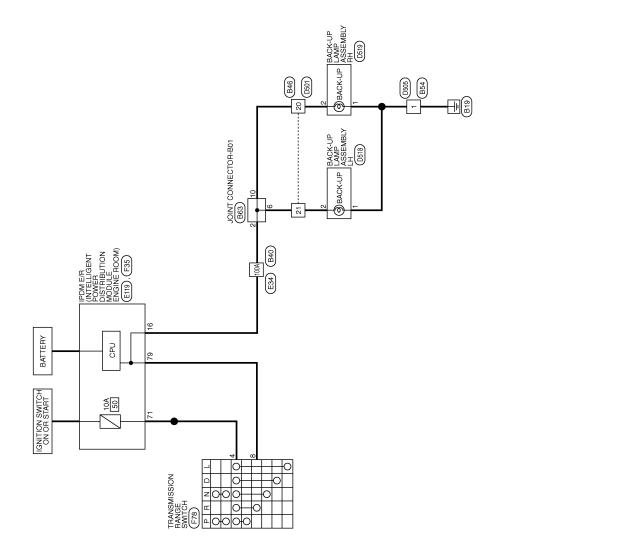
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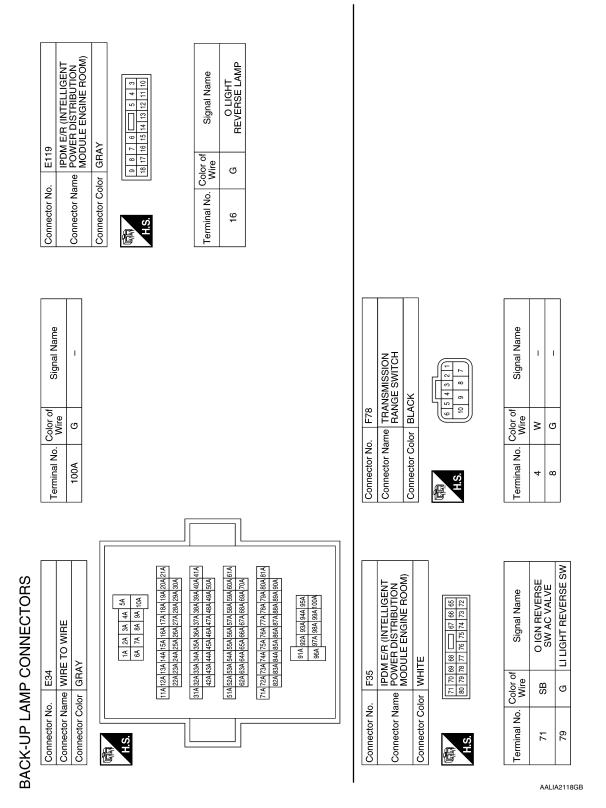
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**BACK-UP LAMP** 

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| Connector No. B46 Connector Name WIRE TO WIRE Connector Color WHITE  Connector Color WHITE  Terminal No. Color of Signal Name  20 LA/G | Connector No.   D501   Connector Name   WIRE TO WIRE   Connector Color   WHITE   Connector Color   WHITE   Connector Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   | A<br>B<br>C<br>D |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Terminal No. Color of Signal Name 100A G –                                                                                             | Connector No.   B63   Connector Name   JOINT CONNECTOR-B01   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   GRAY   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector Color   Connector   Connector Color   Connector   Connector   Connector   Connector   Connecto | G<br>H<br>J      |
| Connector No.   B40                                                                                                                    | Connector No. B54 Connector Name WIRE TO WIRE Connector Color WHITE  Terminal No. Color of Signal Name  1 B -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K EXL M N O      |

| Connector No.                           | ). D519          | 6                           |
|-----------------------------------------|------------------|-----------------------------|
| Connector Name BACK-UP LAMP ASSEMBLY RH | ame BAC<br>ASS   | BACK-UP LAMP<br>ASSEMBLY RH |
| Connector Color WHITE                   | olor WH          | ТЕ                          |
| 即<br>H.S.                               |                  |                             |
| Terminal No.                            | Color of<br>Wire | Signal Name                 |
| 1                                       | GR               | -                           |
| 2                                       | LA/L             | 1                           |

| 8             | SK-UP LAMP<br>SEMBLY LH                 | ITE                   | 2 3       | Signal Name      | -  | ı    |
|---------------|-----------------------------------------|-----------------------|-----------|------------------|----|------|
| . D518        | me B/AS                                 | lor Wi                |           | Color of<br>Wire | GR | LA/G |
| Connector No. | Connector Name BACK-UP LAMP ASSEMBLY LH | Connector Color WHITE | 高<br>H.S. | Terminal No.     | l  | 2    |

| Connector No. D505  Connector Name WIRE TO WIRE  Connector Color WHITE  H.S.  Terminal No. Color of Signa  Wire  Signa |
|------------------------------------------------------------------------------------------------------------------------|
|------------------------------------------------------------------------------------------------------------------------|

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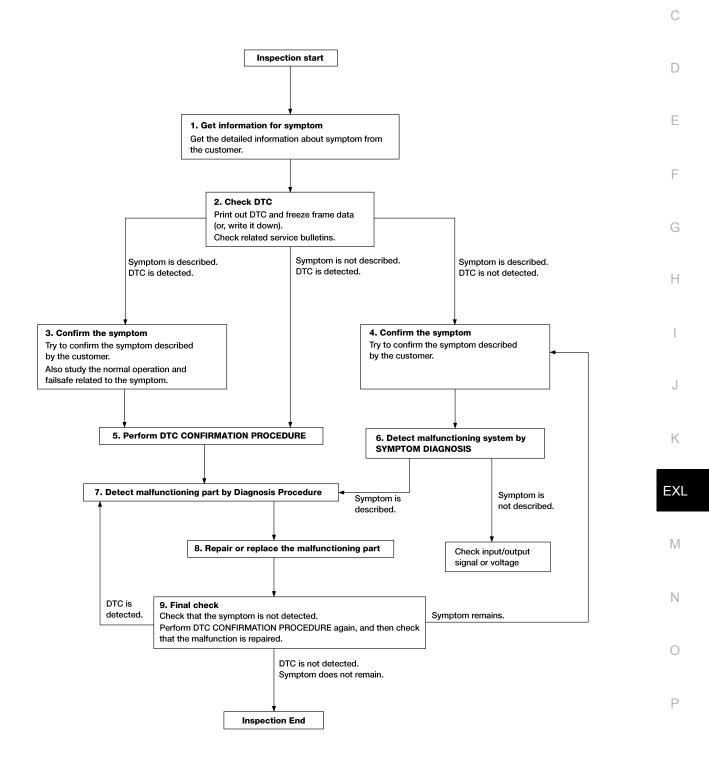
< BASIC INSPECTION > [LED HEADLAMP]

### **BASIC INSPECTION**

### DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

**OVERALL SEQUENCE** 



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### DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > [LED HEADLAMP]

### 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. If two or more DTCs are detected, refer to BCS-47, "DTC Inspection Priority Chart" (with Intelligent Key system) or BCS-109, "DTC Inspection Priority Chart" (without Intelligent Key system) (BCM) or PCS-26, "DTC Index" (IPDM E/R), and determine trouble diagnosis order.

### 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 CONFIR-MATION PROCEDURE.

### Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-45, "Intermittent Incident".

### $oldsymbol{6}$ .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 CON-SULT.

### **DIAGNOSIS AND REPAIR WORKFLOW**

[LED HEADLAMP] < BASIC INSPECTION > 7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE Α Inspect according to Diagnostic Procedure of the system. Is malfunctioning part detected? YES >> GO TO 8. В NO >> Check according to GI-45, "Intermittent Incident". 8.REPAIR OR REPLACE THE MALFUNCTIONING PART Repair or replace the malfunctioning part. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement. Check DTC. If DTC is detected, erase it. D >> GO TO 9. Е 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. >> Before returning the vehicle to the customer, always erase DTC. NO Н K **EXL** 

**EXL-215** Revision: September 2015 2016 Rogue NAM Ν

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### LED HEADLAMP OPERATION INSPECTION

< BASIC INSPECTION > [LED HEADLAMP]

### LED HEADLAMP OPERATION INSPECTION

### Diagnosis Procedure

### INFOID:0000000012423108

### 1. CHECK START

- In the cool LED status (wait for more than 10 minutes after turning headlamp OFF), turn ON and turn OFF
  headlamp for the several times. Check that headlamp operates normally each time.
- In the cool LED status, turn headlamp ON, wait until headlamp enters to the stable status (approximately 5 minutes after turning headlamp ON), and then check that headlamp operates normally without blinking or flickering.
- 3. In the warm LED status (turn headlamp ON for more than 15 minutes and wait for 1 minute after turning OFF), turn ON and turn OFF headlamp for the several times. Check that headlamp operates normally each time.
- 4. Turn headlamp ON for approximately 30 minutes, and then check that headlamp operates normally without difference in brightness between LH and RH, blinking or flickering.

### Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to EXL-241, "Symptom Table".

### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

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# DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM): Diagnosis Procedure INFOID:0000000012735183

Regarding Wiring Diagram information, refer to BCS-51, "Wiring Diagram".

### 1. CHECK FUSE

Check that the following fuse is not blown.

| Terminal No. | Signal name      | Fuse No. |
|--------------|------------------|----------|
| 161          | BCM power supply | 7 (10A)  |

#### Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

### $2.\,$ CHECK POWER SUPPLY CIRCUIT

Disconnect BCM connector M20.

Check voltage between BCM connector M20 and ground.

| всм       |                    | Ground | Voltage         |  |
|-----------|--------------------|--------|-----------------|--|
| Connector | Connector Terminal |        | (Approx.)       |  |
| M20       | 161                | _      | Battery voltage |  |

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

#### $oldsymbol{3}.$ CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

| BCM       |          | Ground  | Continuity |
|-----------|----------|---------|------------|
| Connector | Terminal | Giodila | Continuity |
| M20       | 170      | _       | Yes        |
|           | 171      |         |            |

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM): Diagnosis Procedure INFOID:0000000012735184

Regarding Wiring Diagram information, refer to <a href="BCS-112">BCS-112</a>, "Wiring Diagram".

# 1. CHECK FUSE

**EXL-217** Revision: September 2015 2016 Rogue NAM **EXL** 

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### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

Check that the following fuse is not blown.

| Terminal No. | Signal name      | Fuse No. |  |
|--------------|------------------|----------|--|
| 161          | BCM power supply | 7 (10A)  |  |

#### Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

# 2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M20.

2. Check voltage between BCM connector M20 and ground.

| В         | CM       | Ground      | Voltage         |  |
|-----------|----------|-------------|-----------------|--|
| Connector | Terminal | Ordana      | (Approx.)       |  |
| M20       | 161      | <del></del> | Battery voltage |  |

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

# 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

| BCM                |     | Ground       | Continuity |
|--------------------|-----|--------------|------------|
| Connector Terminal |     |              |            |
| M20                | 170 |              | Yes        |
|                    | 171 | <del>_</del> | 165        |

### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

### **OPTICAL SENSOR**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

### **OPTICAL SENSOR**

# Component Function Check

INFOID:0000000012423111

# 1. CHECK OPTICAL SENSOR SIGNAL BY CONSULT

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#### **©CONSULT DATA MONITOR**

- 1. Turn ignition switch ON.
- Select "OPTICAL SENSOR" in "Data Monitor" of "BCM (HEADLAMP)".
- 3. Turn lighting switch AUTO.
- 4. With the optical sensor illuminating, check the monitor status.

| Monitor item                  | Condition               |                 | Voltage (Approx.) |
|-------------------------------|-------------------------|-----------------|-------------------|
| OPTICAL SENSOR Optical sensor | When illuminating       | 3.1 V or more * |                   |
|                               | When shutting off light | 0.6 V or less   |                   |

<sup>\*:</sup> Illuminates the optical sensor. The value may be less than the standard value if brightness is weak.

#### Is the inspection result normal?

YES >> Optical sensor is normal.

NO >> Refer to EXL-219, "Diagnosis Procedure".

# Diagnosis Procedure

INFOID:0000000012423112

# 1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

- Turn ignition switch ON.
- 2. Turn lighting switch AUTO.
- Check voltage between optical sensor harness connector and ground.

| (+)            |          |        | Voltage<br>(Approx.) |  |
|----------------|----------|--------|----------------------|--|
| Optical sensor |          | (–)    |                      |  |
| Connector      | Terminal |        | ( ) ,                |  |
| M13            | 1        | Ground | 5 V                  |  |

### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

# 2.CHECK OPTICAL SENSOR GROUND INPUT

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Check voltage between optical sensor harness connector and ground.

| (+) Optical sensor |          | (-)    | Voltage<br>(Approx.) |  |
|--------------------|----------|--------|----------------------|--|
| Connector          | Terminal |        | (дрргох.)            |  |
| M13                | 3        | Ground | 0 V                  |  |

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 6.

# 3.check optical sensor signal output

With illuminating the optical sensor, check voltage between optical sensor harness connector and ground.

| (+        | ,        | (–)             | Condition               |                   | (-) Condition Voltage (Approx.) |  | Voltage<br>(Approx.) |
|-----------|----------|-----------------|-------------------------|-------------------|---------------------------------|--|----------------------|
| Connector | Terminal |                 |                         |                   | ( ) ;                           |  |                      |
| M13       | 2        | Ground          | Optical sensor          | When illuminating | 3.1 V or more *                 |  |                      |
| WITS      | 2        | Optical serisor | When shutting off light | 0.6 V or less     |                                 |  |                      |

<sup>\*:</sup> Illuminate the optical sensor. The value may be less than the standard if brightness is weak.

#### Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace the optical sensor.

### f 4.CHECK OPTICAL SENSOR OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect optical sensor connector and BCM connector.
- 3. Check continuity between optical sensor harness connector and BCM harness connector.

| Optica    | Optical sensor |           | BCM      |            |
|-----------|----------------|-----------|----------|------------|
| Connector | Terminal       | Connector | Terminal | Continuity |
| M13       | 1              | M18       | 12       | Yes        |

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

### ${f 5}.$ CHECK OPTICAL SENSOR SHORT CIRCUIT

Check continuity between optical sensor harness connector and ground.

| Optical sensor     |   |        | Continuity |
|--------------------|---|--------|------------|
| Connector Terminal |   | Ground | Continuity |
| M13                | 1 |        | No         |

#### Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-76</u>, "<u>Removal and Installation</u>" (with Intelligent Key system) or <u>BCS-137</u>, "<u>Removal and Installation</u>" (without Intelligent Key system).

NO >> Repair or replace harness.

### 6. CHECK OPTICAL SENSOR GROUND OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect optical sensor connector and BCM connector.
- 3. Check continuity between optical sensor harness connector and BCM harness connector.

| Optica    | l sensor | В         | ВСМ      |            |
|-----------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M13       | 3        | M18       | 30       | Yes        |

#### Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-76</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-137</u>, "Removal and Installation" (without Intelligent Key system).

NO >> Repair or replace harness.

# 7. CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect optical sensor connector and BCM connector.
- 3. Check continuity between optical sensor harness connector and BCM harness connector.

#### **OPTICAL SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

| Optica    | Optical sensor BCM |           | Continuity |            |
|-----------|--------------------|-----------|------------|------------|
| Connector | Terminal           | Connector | Terminal   | Continuity |
| M13       | 2                  | M18       | 19         | Yes        |

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Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

8. CHECK OPTICAL SENSOR SHORT CIRCUIT

Check continuity between optical sensor harness connector and ground.

| Optical sensor |          |        | Continuity |
|----------------|----------|--------|------------|
| Connector      | Terminal | Ground | Continuity |
| M13            | 2        |        | No         |

#### Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-76</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-137</u>, "Removal and Installation" (without Intelligent Key system).

NO >> Repair or replace harness.

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[LED HEADLAMP]

### HAZARD SWITCH

# **Component Function Check**

INFOID:0000000012423113

## 1. CHECK HAZARD SWITCH SIGNAL BY CONSULT

#### **®CONSULT DATA MONITOR**

- Turn ignition switch ON.
- Select "HAZARD SW" in "Data Monitor" of "BCM (FLASHER)".
- 3. With operating the hazard switch, check the monitor status.

| Monitor item | Con           | Monitor status |     |  |
|--------------|---------------|----------------|-----|--|
| HAZARD SW    | Hazard switch | ON             | On  |  |
| HAZAKD 3W    | Hazaru Switch | OFF            | Off |  |

#### Is the inspection result normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to EXL-222, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000012423114

# 1. CHECK HAZARD SWITCH SIGNAL INPUT

- 1. Turn ignition switch OFF.
- Disconnect hazard switch connector.
- Check voltage between hazard switch connector and ground.

| (             | +)       |        |                   |
|---------------|----------|--------|-------------------|
| Hazard switch |          | (–)    | Voltage (Approx.) |
| Connector     | Terminal |        |                   |
| M26           | 2        | Ground | Battery voltage   |

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

# $2.\mathsf{CHECK}$ HAZARD SWITCH SIGNAL OPEN CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between hazard switch harness connector and BCM harness connector.

| Hazard switch |          | ВСМ       |          | Continuity |
|---------------|----------|-----------|----------|------------|
| Connector     | Terminal | Connector | Terminal | Continuity |
| M26           | 2        | M18       | 11       | Yes        |

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check hazard switch signal short circuit

Check continuity between hazard switch harness connector and ground.

| Hazard switch |          |        | Continuity |  |
|---------------|----------|--------|------------|--|
| Connector     | Terminal | Ground | Continuity |  |
| M26           | 2        |        | No         |  |

#### Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-76</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-137</u>, "Removal and Installation" (without Intelligent Key system).

NO >> Repair or replace harness.

#### **HAZARD SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

# 4. CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

Check continuity between hazard switch harness connector and ground.

| Hazard switch |          |        | Continuity |
|---------------|----------|--------|------------|
| Connector     | Terminal | Ground | Continuity |
| M26           | 3        |        | Yes        |

#### Is the inspection result normal?

YES >> Replace hazard switch. Refer to EXL-126, "Removal and Installation".

NO >> Repair or replace harness.

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[LED HEADLAMP]

### TURN SIGNAL LAMP CIRCUIT

Description INFOID:000000012423115

The BCM monitors inputs from the combination switch (lighting and turn signal switch) to determine when to activate the turn signals. The BCM outputs voltage direction to the left and right turn signals during turn signal operation or both during hazard warning operation. The BCM sends a turn signal indicator request to the combination meter via the CAN communication lines.

The BCM performs the fast flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is open.

#### NOTE:

Turn signal lamp blinks at normal speed when using the hazard warning lamp.

### Component Function Check

INFOID:0000000012423116

# 1.CHECK TURN SIGNAL LAMP

#### CONSULT

- Select "FLASHER" in "Active Test" of "BCM (FLASHER)".
- 2. While operating the test items, check that the turn signal lamp blinks.

LH : Turn signal lamps (LH) ON
RH : Turn signal lamps (RH) ON
Off : Turn signal lamps OFF

#### Is the inspection result normal?

YES >> Turn signal lamp circuit is normal.

NO >> Refer to EXL-224, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000012423117

Regarding Wiring Diagram information, refer to <a>EXL-187</a>, "Wiring Diagram"</a>.

# 1. CHECK TURN SIGNAL LAMP BULB

Check the applicable lamp bulb to be sure the proper bulb standard is in use and the bulb is not open.

#### Is the bulb OK?

YES >> GO TO 2.

NO >> Replace the bulb.

# 2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

- Turn the ignition switch OFF.
- Disconnect the front combination lamp harness connector, door mirror harness connector or the side turn signal harness connector or the rear combination lamp harness connector in question.
- Turn the ignition switch ON.
- 4. Operate the turn signal switch.
- While the turn signal is operating, check the voltage between the front combination lamp harness connector and ground.

| (+)       |          | (-) | Voltage   |
|-----------|----------|-----|-----------|
| Connector | Terminal | (-) | (Approx.) |

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| LH | E105 |   |        |                                  |
|----|------|---|--------|----------------------------------|
| RH | E103 | 1 | Ground | (V)<br>15<br>10<br>5<br>0<br>1 s |

While the turn signal is operating, check the voltage between the door mirror harness connector and ground.

| (+) Connector Terminal |      | (_)      | Voltage<br>(Approx.) |                    |
|------------------------|------|----------|----------------------|--------------------|
|                        |      | Terminal | (-)                  | (Approx.)          |
| LH                     | D14  |          |                      |                    |
| RH                     | D107 | 13       | Ground               | 15<br>10<br>5<br>0 |

While the turn signal is operating, check the voltage between the rear combination lamp harness connector and ground.

| (+) Connector Terminal |      | (-)      | Voltage<br>(Approx.) |                                  |
|------------------------|------|----------|----------------------|----------------------------------|
|                        |      | Terminal | (-)                  | (Approx.)                        |
| LH                     | B90  |          |                      |                                  |
| RH                     | B102 | 3        | Ground               | (V)<br>15<br>10<br>5<br>0<br>1 s |

#### Are the inspection results normal?

YES >> GO TO 5.

NO >> GO TO 3.

# 3.check turn signal lamp circuit for open

- Turn the ignition switch OFF.
- 2. Disconnect BCM harness connector E29, M18 or B23.
- 3. Check continuity between the BCM harness connector E29 and the front combination lamp harness connector.

| ВСМ |                    | Front combination lamp |           | Continuity |            |
|-----|--------------------|------------------------|-----------|------------|------------|
| Cor | Connector Terminal |                        | Connector | Terminal   | Continuity |
| LH  | E20                | 135                    | E105      | 1          | Yes        |
| RH  | E29                | 136                    | E103      | 1          | res        |

4. Check continuity between the BCM harness connector B23 and the door mirror harness connector.

| ВСМ |         | Door mirror |                    | Continuity |            |
|-----|---------|-------------|--------------------|------------|------------|
| Со  | nnector | Terminal    | Connector Terminal |            | Continuity |
| LH  | M18     | 2           | D14                | 13         | Yes        |
| RH  | IVITO   | 3           | D107               | 13         | 165        |

**EXL-225** Revision: September 2015 2016 Rogue NAM **EXL** 

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### **TURN SIGNAL LAMP CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

Check continuity between the BCM harness connector B23 and the rear combination lamp harness connector.

| BCM |         | Rear combination lamp |           | Continuity |            |
|-----|---------|-----------------------|-----------|------------|------------|
| Cor | nnector | Terminal              | Connector | Terminal   | Continuity |
| LH  | B23     | 157                   | B90       | 2          | Yes        |
| RH  | 623     | 160                   | B102      | 3          | 168        |

#### Are the inspection results normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connectors.

### 4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

1. Check continuity between the BCM harness connector E29 and ground.

| BCM |           |     |        | Continuity |  |
|-----|-----------|-----|--------|------------|--|
| Cor | Connector |     | Ground | Continuity |  |
| LH  | E29       | 135 | Ground | No         |  |
| RH  | E29       | 136 |        | INU        |  |

Check continuity between the BCM harness connector M18 and ground.

| BCM |         |          | Continuity |            |
|-----|---------|----------|------------|------------|
| Cor | nnector | Terminal | Ground     | Continuity |
| LH  | B18     | 2        | Glound     | No         |
| RH  | БІО     | 3        |            | NO         |

3. Check continuity between the BCM harness connector M23 and ground.

| BCM |                    |     | Continuity |            |
|-----|--------------------|-----|------------|------------|
| Cor | Connector Terminal |     | Ground     | Continuity |
| LH  | B23                | 157 | Ground     | No         |
| RH  | 623                | 160 |            | NU         |

#### Are the inspection results normal?

YES >> Replace BCM. Refer to <u>BCS-76</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-137</u>, "Removal and Installation" (without Intelligent Key system).

NO >> Repair or replace the harness or connectors.

# 5. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

- Turn the ignition switch OFF.
- Check continuity between the front combination lamp harness connector, the door mirror connector or the rear combination lamp harness connector in question and ground.

| Front combination lamp |      |          | ( )    | Continuity |
|------------------------|------|----------|--------|------------|
| Connector              |      | Terminal | - (-)  | Continuity |
| LH                     | E105 | 2        | Ground | Yes        |
| RH                     | E103 | 2        | Giouna | 168        |

3. Check continuity between the door mirror harness connector and ground.

| Door mirror | (-)      | Continuity |            |
|-------------|----------|------------|------------|
| Connector   | Terminal | (-)        | Continuity |

### **TURN SIGNAL LAMP CIRCUIT**

### < DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

| LH | D14  | 14 | Ground | Voc |
|----|------|----|--------|-----|
| RH | D107 | 14 | Ground | res |

4. Check continuity between the rear combination lamp harness connector and ground.

| Rear combination lamp |      |          | ( )    | Continuity |
|-----------------------|------|----------|--------|------------|
| Connector             |      | Terminal | (-)    | Continuity |
| LH                    | B90  | 4        | Ground | Yes        |
| RH                    | B102 | 4        | Giouna | 165        |

### Are the inspection results normal?

YES >> Replace the malfunctioning lamp.

NO >> Repair or replace the harness or connectors.

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### **B121A FRONT FOG LAMP LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

### B121A FRONT FOG LAMP LH POWER SUPPLY CIRCUIT

**DTC** Logic INFOID:0000000012423118

#### DTC DETECTION LOGIC

| DTC   | Display Item                                          | Malfunction detected condition | Possible causes              |
|-------|-------------------------------------------------------|--------------------------------|------------------------------|
| B121A | FR FOG LAMP LH PWR SPLY CIRC<br>[CIRC SHORT TO GROUND | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

- Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B121A detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-228, "Diagnosis Procedure".

NO >> Inspection End.

### Diagnosis Procedure

INFOID:0000000012423119

# 1. CHECK FOG LAMP SHORT CIRCUIT TO GROUND

- Disconnect fog lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E217      | 51       |            | No         |

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

- Reconnect IPDM E/R connector.
- Check continuity between fog lamp harness connector and ground.

| Fog lamp |        |          |        | Continuity |
|----------|--------|----------|--------|------------|
| Conr     | nector | Terminal | Ground | Continuity |
| LH       | E222   | 1        |        | No         |

#### Is the inspection result normal?

YES

>> Refer to <u>GI-45</u>, "<u>Intermittent Incident</u>". >> Replace IPDM E/R. Refer to <u>PCS-44</u>, "<u>Removal and Installation</u>". NO

### **B1231 DAYTIME RUNNING LIGHT RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

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INFOID:0000000012423121

# B1231 DAYTIME RUNNING LIGHT RH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                  | Malfunction detected condition                                                  | Possible causes              |
|-------|-----------------------------------------------|---------------------------------------------------------------------------------|------------------------------|
| B1231 | DTRL RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | When a short circuit to ground in the daytime running lamp circuit is detected. | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B1231 detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-229">EXL-229</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E218      | 58       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |      |          |        | Continuity |
|------------------------|------|----------|--------|------------|
| Connector              |      | Terminal | Ground | Continuity |
| RH                     | E240 | 8        |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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### **B1256 FRONT FOG LAMP RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

### B1256 FRONT FOG LAMP RH POWER SUPPLY CIRCUIT

**DTC Logic** INFOID:0000000012423122

#### DTC DETECTION LOGIC

| DTC   | Display Item                                         | Malfunction detected condition              | Possible causes              |
|-------|------------------------------------------------------|---------------------------------------------|------------------------------|
| B1256 | FR FOG LAMP RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | When a short circuit to ground is detected. | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B1256 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-230, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423123

# 1. CHECK FOG LAMP SHORT CIRCUIT TO GROUND

- Disconnect fog lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E218      | 57       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

- Reconnect IPDM E/R connector.
- Check continuity between fog lamp harness connector and ground.

| Fog lamp |        |          |        | Continuity |
|----------|--------|----------|--------|------------|
| Conr     | nector | Terminal | Ground | Continuity |
| RH       | E221   | 1        |        | No         |

#### Is the inspection result normal?

YES

>> Refer to <u>GI-45</u>, "<u>Intermittent Incident</u>". >> Replace IPDM E/R. Refer to <u>PCS-44</u>, "<u>Removal and Installation</u>". NO

# **B20CB DAYTIME RUNNING LIGHT LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

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INFOID:0000000012423131

# B20CB DAYTIME RUNNING LIGHT LH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                  | Malfunction detected condition              | Possible causes              |
|-------|-----------------------------------------------|---------------------------------------------|------------------------------|
| B02CB | DTRL LH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | When a short circuit to ground is detected. | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B02CB detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-231">EXL-231</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E217      | 49       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between fog lamp harness connector and ground.

| Front combination lamp |      |          |        | Continuity |
|------------------------|------|----------|--------|------------|
| Connector              |      | Terminal | Ground | Continuity |
| LH                     | E239 | 8        |        | No         |

### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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### **B20CE HEADLAMP (HI) LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

# B20CE HEADLAMP (HI) LH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                  | Malfunction detected condition | Possible causes              |
|-------|-----------------------------------------------|--------------------------------|------------------------------|
| B20CE | DTRL LH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20CE detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-232">EXL-232</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423133

# 1. CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          |        | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | Ground | Continuity |
| E218      | 59       |        | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |      |          |        | Continuity |
|------------------------|------|----------|--------|------------|
| Connector              |      | Terminal | Ground | Continuity |
| LH                     | E239 | 5        |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

### **B20CF HEADLAMP (HI) RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

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INFOID:0000000012423135

# B20CF HEADLAMP (HI) RH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                     | Malfunction detected condition | Possible causes              |
|-------|--------------------------------------------------|--------------------------------|------------------------------|
| B20CF | HL (HI) RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(E)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20CF detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-233">EXL-233</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E217      | 54       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2 .CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |      |          |        | Continuity |
|------------------------|------|----------|--------|------------|
| Connector              |      | Terminal | Ground | Continuity |
| RH                     | E240 | 5        |        | No         |

### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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### **B20D0 HEADLAMP (LO) LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

# B20D0 HEADLAMP (LO) LH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                     | Malfunction detected condition | Possible causes              |
|-------|--------------------------------------------------|--------------------------------|------------------------------|
| B20D0 | HI (LO) RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20D0 detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-234">EXL-234</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423137

# 1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E217      | 50       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |      |          |        | Continuity |
|------------------------|------|----------|--------|------------|
| Connector              |      | Terminal | Ground | Continuity |
| LH                     | E239 | 6        |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

### **B20D1 HEADLAMP (LO) RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

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INFOID:0000000012423139

# B20D1 HEADLAMP (LO) RH POWER SUPPLY CIRCUIT

DTC Logic

DTC DETECTION LOGIC

| DTC   | Display Item                                     | Malfunction detected condition | Possible causes              |
|-------|--------------------------------------------------|--------------------------------|------------------------------|
| B20D1 | HL (LO) RH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

(P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20D1 detected?

YES >> Proceed to diagnosis procedure. Refer to <a href="EXL-235">EXL-235</a>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp connector and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E218      | 62       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between front combination lamp harness connector and ground.

| Front combination lamp |      |          |        | Continuity |
|------------------------|------|----------|--------|------------|
| Connector              |      | Terminal | Ground | Continuity |
| RH                     | E240 | 6        |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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### **B20D2 PARKING LAMP POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

# B20D2 PARKING LAMP POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                      | Malfunction detected condition                                               | Possible causes |
|-------|---------------------------------------------------|------------------------------------------------------------------------------|-----------------|
| B20D2 | PARKING LAMP PWR SPLY CIRC [CIRC SHORT TO GROUND] | When a short to ground is detected in the parking lamp power supply circuit. |                 |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- 1. Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20D2 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-236, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423141

# 1. CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- Disconnect front combination lamp connectors and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

|      | IPDM E/R |          |        | Continuity |
|------|----------|----------|--------|------------|
| Conr | nector   | Terminal | Ground |            |
| LH   | E217     | 56       | Giouna | No         |
| RH   | E218     | 61       |        |            |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between front combination lamp harness connector and ground.

| IPDM E/R |                            |    |           | Continuity |
|----------|----------------------------|----|-----------|------------|
| Conr     | Connector                  |    |           |            |
| LH       | E236<br>(parking lamp)     | 12 |           |            |
| LH       | E235<br>(side marker lamp) | 9  | Ground No | No         |
| RH       | E234<br>(parking lamp)     | 12 |           |            |
| KΠ       | E233<br>(side marker lamp) | 9  |           |            |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

#### **B20D4 TAIL LAMP LH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

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INFOID:0000000012423143

# B20D4 TAIL LAMP LH POWER SUPPLY CIRCUIT

DTC Logic

#### DTC DETECTION LOGIC

| DTC   | Display Item                                       | Malfunction detected condition | Possible causes              |
|-------|----------------------------------------------------|--------------------------------|------------------------------|
| B20D4 | TAIL LAMP LH PWR SPLY CIRC<br>[CIRC SHORT TO GRND] | Short to ground                | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

### 1. CHECK SELF DIAGNOSTIC RESULT

(II) With CONSULT.

1. Turn ignition switch ON.

2. Perform "Self Diagnostic Result".

#### Is DTC B20D4 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-237, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

- Disconnect rear combination lamp (LH), license plate lamps, back up lamp connectors and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E119      | 4        |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

- Reconnect IPDM E/R connector.
- 2. Check continuity between rear combination lamp harness connector and ground.

| Rear combination lamp |     |          |        | Continuity |
|-----------------------|-----|----------|--------|------------|
| Connector             |     | Terminal | Ground | Continuity |
| LH                    | B90 | 1        |        | No         |

#### Is the inspection result normal?

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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### **B20D5 TAIL LAMP RH POWER SUPPLY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

# B20D5 TAIL LAMP RH POWER SUPPLY CIRCUIT

**DTC Logic** INFOID:0000000012423144

#### DTC DETECTION LOGIC

| DTC   | Display Item                                    | Malfunction detected condition                                                      | Possible causes              |
|-------|-------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|
| B20D5 | TAIL LAMP RH PWR SPLY CIRC [CIRC SHORT TO GRND] | When a short circuit to ground is detected in the tail lamp supply voltage circuit. | IPDM E/R     Short to ground |

#### DTC CONFIRMATION PROCEDURE

# 1. CHECK SELF DIAGNOSTIC RESULT

#### (P)With CONSULT.

- Turn ignition switch ON.
- 2. Perform "Self Diagnostic Result".

#### Is DTC B20D5 detected?

>> Proceed to diagnosis procedure. Refer to EXL-238, "Diagnosis Procedure". YES

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423145

# 1. CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

- Disconnect rear combination lamp (RH), back up lamp connectors and IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E119      | 17       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.check tail lamp short circuit to ground

- Reconnect IPDM E/R connector.
- Check continuity between rear combination lamp harness connector and ground.

| Rear combination lamp |      |          |        | Continuity |
|-----------------------|------|----------|--------|------------|
| Connector             |      | Terminal | Ground | Continuity |
| RH                    | B102 | 1        |        | No         |

#### Is the inspection result normal?

YES

>> Refer to <u>GI-45</u>, "<u>Intermittent Incident</u>". >> Replace IPDM E/R. Refer to <u>PCS-44</u>, "<u>Removal and Installation</u>". NO

### **B20E2 LED HEADLAMP RH**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

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INFOID:0000000012423149

### **B20E2 LED HEADLAMP RH**

DTC Logic

#### DTC DETECTION LOGIC

| DTC No. | Self-diagnosis item                              | DTC Detection Condition                   | Possible causes                                                                           |
|---------|--------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------|
| B20E2   | LED HEADLAMP RH<br>[CMPNENT INTERNAL<br>MLFNCTN] | Detection signal circuit short to ground. | Harness or connectors between the front combination lamp RH and the IPDM E/R     IPDM E/R |

### DTC CONFIRMATION PROCEDURE

# 1. SELF DIAGNOSTIC RESULT

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" with CONSULT.

#### Is DTC detected?

YES >> Refer to EXL-239, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. CHECK FRONT COMBINATION LAMP RH SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp RH connector and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E218      | 60       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP RH SHORT CIRCUIT TO GROUND

- 1. Reconnect IPDM E/R connector.
- 2. Check continuity between front combination lamp RH harness connector and ground.

| Front combination lamp RH |   |        | Ground |
|---------------------------|---|--------|--------|
| Connector Terminal        |   | Ground | Ground |
| E240                      | 7 |        | No     |

#### Is the inspection result normal?

YES >> Replace front combination lamp RH. Refer to EXL-253, "Removal and Installation".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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### **B20E3 LED HEADLAMP LH**

< DTC/CIRCUIT DIAGNOSIS >

[LED HEADLAMP]

### **B20E3 LED HEADLAMP LH**

DTC Logic

#### DTC DETECTION LOGIC

| DTC<br>No. | Self-diagnosis item                              | DTC Detection Condition                  | Possible causes                                                                           |
|------------|--------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------|
| B20E3      | LED HEADLAMP LH<br>[CMPNENT INTERNAL<br>MLFNCTN] | Detection signal circuit short to ground | Harness or connectors between the front combination lamp LH and the IPDM E/R     IPDM E/R |

### DTC CONFIRMATION PROCEDURE

# 1. SELF DIAGNOSTIC RESULT

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" with CONSULT.

#### Is DTC detected?

YES >> Refer to EXL-240, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012423151

# 1. CHECK FRONT COMBINATION LAMP LH SHORT CIRCUIT TO GROUND

- 1. Disconnect front combination lamp LH connector and IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and ground.

| IPDM E/R  |          | Continuity |            |
|-----------|----------|------------|------------|
| Connector | Terminal | Ground     | Continuity |
| E217      | 53       |            | No         |

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK FRONT COMBINATION LAMP LH SHORT CIRCUIT TO GROUND

- Reconnect IPDM E/R connector.
- Check continuity between front combination lamp LH harness connector and ground.

| Front combination lamp LH |          |        | Ground |
|---------------------------|----------|--------|--------|
| Connector                 | Terminal | Ground | Ground |
| E239                      | 7        |        | No     |

#### Is the inspection result normal?

YES >> Replace front combination lamp LH. Refer to EXL-253, "Removal and Installation".

NO >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

### **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

[LED HEADLAMP]

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# SYMPTOM DIAGNOSIS

# **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

Symptom Table

#### **CAUTION:**

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

| Sym                                                                      | ptom       | Possible cause                                                                                                                  | Inspection item                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Headlamp (HI) is not turned ON.                                          | One side   | Fuse     LED     Harness between IPDM E/R and headlamp (HI)     Harness between headlamp (HI) and ground     IPDM E/R           | Headlamp (HI) circuit Refer to EXL-232, "DTC Logic" (LH)                                                                                                                                                                         |
| turned ON.                                                               | Both sides | Symptom diagnosis "BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON" Refer to EXL-232, "DTC Logic" (LH) or EXL-233, "DTC Logic" (RH). | or EXL-233, "DTC Logic" (RH).                                                                                                                                                                                                    |
| High beam indicator lamp is not turned ON. [Headlamp (HI) is turned ON.] |            | Combination meter                                                                                                               | Combination meter     "Data Monitor" "HI-BEAM IND"     BCM (HEAD LAMP)     "Active Test" "HEADLAMP"                                                                                                                              |
| Headlamp (LO) is not turned ON.                                          | One side   | Fuse     LED     Harness between IPDM E/R and headlamp lamp (LO)     Harness between headlamp (LO) and ground     IPDM E/R      | Headlamp (LO) circuit Refer to EXL-234, "DTC Logic" (LH) or EXL-235, "DTC Logic" (RH).                                                                                                                                           |
|                                                                          | Both sides | Symptom diagnosis "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-234, "DTC Logic" (LH) or EXL-235, "DTC Logic" (RH). |                                                                                                                                                                                                                                  |
| Each lamp is not turned ON/OFF with lighting switch AUTO.                |            | Combination switch     Harness between combination switch and BCM     BCM                                                       | Combination switch Refer to <u>BCS-74</u> , "Symptom Table" (with Intelligent Key system) or <u>BCS-135</u> , "Symptom Table" (without Intelligent Key system).                                                                  |
|                                                                          |            | Optical sensor     Harness between optical sensor and BCM     BCM                                                               | Optical sensor Refer to EXL-88, "Component Function Check".                                                                                                                                                                      |
| Daytime running light is not turned ON. [Headlamp (HI) is turned ON.]    |            | Fuse     Harness between IPDM E/R and front combination lamp     IPDM E/R     BCM     ECM     Combination meter                 | Daytime running light circuit Refer to EXL-229, "DTC Logic".     BCM (HEADLAMP)     "Data Monitor" "ENGINE STATE"     Combination meter     "Data Monitor" "PKB SW"     BCM (HEADLAMP)     "Active Test" "DAYTIME RUNNING LIGHT" |
| Parking lamp is not turned ON.                                           |            | Fuse     Parking lamp bulb     Harness between IPDM E/R     and front combination lamp     IPDM E/R                             | Parking lamp circuit Refer to EXL-236, "DTC Logic".                                                                                                                                                                              |

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Revision: September 2015 **EXL-241** 2016 Rogue NAM

### **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

[LED HEADLAMP]

| Symp                                                                                                      | otom                                                                                            | Possible cause                                                                                                                                             | Inspection item                                                                                                            |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Front side marker lamp is not turned ON.                                                                  |                                                                                                 | Front side marker lamp bulb     Harness between IPDM E/R     and front side marker lamp     Harness between front side marker lamp and ground     IPDM E/R | Front side marker lamp circuit Refer to EXL-236, "DTC Logic".                                                              |
| License plate lamp is not turned ON.                                                                      |                                                                                                 | License plate lamp bulb     Harness between IPDM E/R     and license plate lamp     Harness between license plate lamp and ground                          | License plate lamp circuit Refer to EXL-237, "DTC Logic".                                                                  |
| Parking lamp, side marker lamp, tail lamp and license plate lamp are not turned ON.                       |                                                                                                 | Symptom diagnosis "PARKING, SIDE MARKER, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-246, "Description".                                  |                                                                                                                            |
| Tail lamp indicator is not turned ON. (Exterior lamps are turned ON.)                                     |                                                                                                 | Combination meter                                                                                                                                          | <ul> <li>Combination meter<br/>"Data Monitor" "LIGHT IND"</li> <li>BCM (HEADLAMP)<br/>"Active Test" "TAIL LAMP"</li> </ul> |
| Turn signal lamp does not blink.                                                                          | Indicator lamp is nor-<br>mal.<br>(Applicable side per-<br>forms high flasher acti-<br>vation.) | Turn signal lamp bulb Door mirror Harness between BCM and each turn signal lamp Harness between each turn signal lamp and ground                           | Turn signal lamp circuit Refer to EXL-224, "Component Function Check".                                                     |
|                                                                                                           | One side                                                                                        | Combination meter                                                                                                                                          | -                                                                                                                          |
| Turn signal indicator lamp<br>does not blink.<br>(Turn signal lamp is nor-<br>mal.)                       | Both sides<br>(Always)                                                                          | Turn signal indicator lamp signal BCM Combination meter                                                                                                    | <ul> <li>Combination meter<br/>"Data Monitor" "TURN IND"</li> <li>BCM (FLASHER)<br/>"Active Test" "FLASHER"</li> </ul>     |
|                                                                                                           | Both sides (Only when activating hazard warning lamp with ignition switch OFF)                  | Combination meter power supply and ground circuit     Combination meter                                                                                    | Combination meter Power supply and ground circuit Refer to MWI-60, "COMBINATION METER: Diagnosis Procedure".               |
| Hazard warning lamp does not activate. Hazard warning lamp continues activating. (Turn signal is normal.) |                                                                                                 | Hazard switch     Harness between hazard switch and BCM     Harness between hazard switch and ground     BCM                                               | Hazard switch circuit Refer to EXL-91, "Component Function Check".                                                         |
| Front fog lamp is not turned ON.                                                                          | One side                                                                                        | Front fog lamp bulb     Harness between IPDM E/R and front fog lamp     Harness between front fog lamp and ground     IPDM E/R                             | Front fog lamp circuit Refer to EXL-228, "DTC Logic" (LH or EXL-230, "DTC Logic" (RH).                                     |
|                                                                                                           | Both sides                                                                                      | Symptom diagnosis "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-228. "DTC Logic" (LH) or EXL-230. "DTC Logic" (RH)                            |                                                                                                                            |

### **NORMAL OPERATING CONDITION**

< SYMPTOM DIAGNOSIS >

[LED HEADLAMP]

# NORMAL OPERATING CONDITION

Description INFOID:0000000012423153

### **AUTO LIGHT SYSTEM**

The headlamp may not be turned ON/OFF immediately after passing dark area or bright area (short tunnel, sky bridge, shadowed area, etc.) while using the auto light system. This is caused by the control difference. This is normal.

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# **BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON**

< SYMPTOM DIAGNOSIS >

[LED HEADLAMP]

# BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description INFOID:000000012423154

Both side headlamps (HI) are not turned ON when setting to the lighting switch HI or PASS.

### Diagnosis Procedure

INFOID:0000000012423155

# 1. COMBINATION SWITCH INSPECTION

Check combination switch. Refer to <u>BCS-74, "Symptom Table"</u> (with Intelligent Key system) or <u>BCS-135, "Symptom Table"</u> (without Intelligent Key system).

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

# 2. CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

#### (P)CONSULT DATA MONITOR

- i. Select "HEADLAMP (HI)" in "Data Monitor" of "IPDM E/R".
- 2. With operating the lighting switch, check the monitor status.

| Monitor item  | Condition       |            | Monitor status |
|---------------|-----------------|------------|----------------|
| HEADLAMP (HI) | Lighting switch | HI or PASS | On             |
|               | (2ND)           | LO         | Off            |

#### Is the inspection result normal?

YES >> GO TO 3.

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

# 3.HEADLAMP (HI) CIRCUIT INSPECTION

Check headlamp (HI) circuit. Refer to <u>EXL-232</u>. "<u>DTC Logic</u>" (LH) or <u>EXL-233</u>. "<u>DTC Logic</u>" (RH). <u>Is the inspection result normal?</u>

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace the malfunctioning part.

### **BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON**

< SYMPTOM DIAGNOSIS >

[LED HEADLAMP]

# BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description INFOID:0000000012423156

Both side headlamps (LO) are not turned ON in any condition.

### Diagnosis Procedure

INFOID:0000000012423157

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# 1. CHECK COMBINATION SWITCH

Check combination switch. Refer to <u>BCS-74, "Symptom Table"</u> (with Intelligent Key system) or <u>BCS-135, "Symptom Table"</u> (without Intelligent Key system).

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

# 2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

#### **®CONSULT DATA MONITOR**

- Select "HEADLAMP (LO)" in "Data Monitor" of "IPDM E/R".
- 2. With operating the lighting switch, check the monitor status.

| Monitor item  | Condition       |     | Monitor status |
|---------------|-----------------|-----|----------------|
| HEADLAMP (LO) | Lighting switch | 2ND | On             |
|               | Lighting switch | OFF | Off            |

#### Is the inspection result normal?

YES >> GO TO 3.

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

# 3.HEADLAMP (LO) CIRCUIT INSPECTION

Check headlamp (LO) circuit. Refer to <u>EXL-234, "DTC Logic"</u> (LH) or <u>EXL-235, "DTC Logic"</u> (RH). <u>Is the inspection result normal?</u>

YES >> Refer to GI-45, "Intermittent Incident".

NO >> Repair or replace the malfunctioning part.

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# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[LED HEADLAMP]

# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON

Description INFOID:000000012423158

The parking, license plate, side marker, tail lamps and each illumination are not turned ON in any condition.

### Diagnosis Procedure

INFOID:0000000012423159

# 1. COMBINATION SWITCH INSPECTION

Check combination switch. Refer to <u>BCS-74, "Symptom Table"</u> (with Intelligent Key system) or <u>BCS-135, "Symptom Table"</u> (without Intelligent Key system).

#### Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

# 2.CHECK TAIL LAMP REQUEST SIGNAL INPUT

#### (P)CONSULT DATA MONITOR

- 1. Select "TAIL LAMP" in "Data Monitor" of "IPDM E/R".
- 2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition       |     | Monitor status |
|--------------|-----------------|-----|----------------|
| TAIL LAMP    | Lighting switch | 1ST | On             |
|              | Lighting Switch | OFF | Off            |

#### Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

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

### BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[LED HEADLAMP]

### BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:000000012423160

The front fog lamps are not turned ON in any condition.

Diagnosis Procedure

INFOID:0000000012423161

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### 1. CHECK COMBINATION SWITCH

Check combination switch. Refer to <u>BCS-74, "Symptom Table"</u> (with Intelligent Key system) or <u>BCS-135, "Symptom Table"</u> (without Intelligent Key system).

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning part.

# 2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

#### **®CONSULT DATA MONITOR**

- 1. Select "FRONT FOG LAMP REQ" in "Data Monitor" of "IPDM E/R".
- 2. With operating the front fog lamp switch, check the monitor status.

| Monitor item       | Condition                  |     | Monitor status |
|--------------------|----------------------------|-----|----------------|
| FRONT FOG LAMP REQ | Front fog lamp switch      | ON  | On             |
|                    | (With lighting switch 2ND) | OFF | Off            |

#### Is the item status normal?

NO

YES >> Replace IPDM E/R. Refer to PCS-44, "Removal and Installation".

>> Replace BCM. Refer to <u>BCS-76</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-137</u>, "Removal and Installation" (without Intelligent Key system).

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# PERIODIC MAINTENANCE

### HEADLAMP AIMING ADJUSTMENT

Inspection INFOID:000000012423162

#### PREPARATION BEFORE ADJUSTING

Before performing aiming adjustment, check the following:

- Make sure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Make sure there is no load in vehicle other than the driver (or equivalent weight placed in driver's position).
- · Coolant and engine oil filled to correct level, and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- Confirm spare tire, jack and tools are properly stowed.
- · Carefully wipe off any dirt from headlamp lens.

#### **CAUTION:**

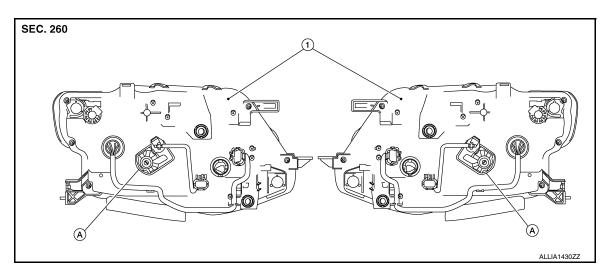
#### Do not use organic solvent (thinner, gasoline etc.)

- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight ahead position.
- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.

#### NOTE:

- For headlamp aiming details, refer to regulations in your area.
- By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.
- · Use adjusting screw to perform aiming adjustment.
- · Perform headlamp aiming if:
- The vehicle front body has been repaired;
- The front combination lamp has been removed or replaced;
- Any outfitting has been installed;
- The vehicle's standard load condition has been substantially increased.

#### AIMING ADJUSTMENT SCREW



- 1. Front combination lamp (view from rear)
- A. Headlamp HI/LO (UP/DOWN) adjustment screw

### Aiming Adjustment Procedure

INFOID:0000000012423163

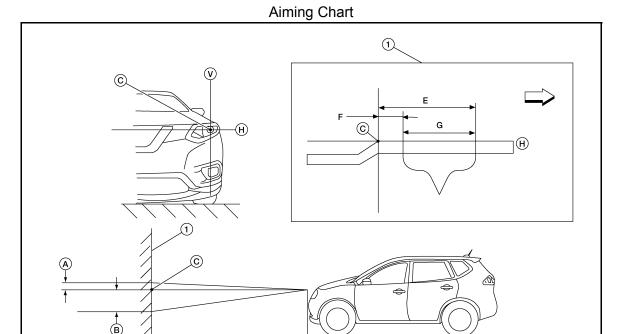
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- Adjustment screen
- Headlamp bulb center (H-V point)

A.

Highest cutoff line height D. Distance of headlamp aiming screen from vehicle 7.62 m (25 ft)

Aim evaluation area

В.

Maximum aim evaluation distance from vertical center on aiming screen 399 mm (3°R)

Horizontal aiming evaluation line

Lowest cutoff line height

AWLIA2696ZZ

- Minimum aim evaluation distance from vertical center on aiming screen 133 mm (1°R)
- V. Vertical aiming evaluation line
- < ☐ Right

13.3 mm (0.5 in) 0.1° up

A (Highest cutoff line height) B (Lowest cutoff line height)

53.2 mm (2.1 in) 0.4° down

#### LOW BEAM AND HIGH BEAM

#### NOTE:

- Basic illuminating area for evaluation and/or adjustment should be within range shown on aiming chart.
- Use adjustment screw to perform aiming adjustment.
  - Ensure fog lamps are turned off.
- Block the opposite headlamp from projecting a beam pattern onto the adjustment screen, using a suitable object. Aim each headlamp individually.

#### CAUTION:

Do not cover the lens surface with a tape etc. The lens is made of resin.

3. Place the screen on the same level and flat surface as the vehicle.

#### NOTE:

- Surface should be free of any debris that would cause a difference between the headlamp center and the adjustment screen.
- Face the front of the vehicle to the screen and measure distance between the headlamp center and the screen surface.

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**EXL-249** Revision: September 2015 2016 Rogue NAM

### **HEADLAMP AIMING ADJUSTMENT**

< PERIODIC MAINTENANCE >

[LED HEADLAMP]

#### Distance between the headlamp center and the screen (D) : 7.62 m (25 ft)

- 5. Start the engine. Turn the headlamp on.
- 6. Determine the preferred vertical aim range dimensions, using the aiming chart.
- 7. Measure the projected beam within the aim evaluation segment on the screen.
- 8. Adjust the beam pattern of each headlamp until the aim evaluation segment (the area relative to both the highest and lowest cutoff line height) is positioned within the vertical aim range dimensions shown on the aiming chart.

[LED HEADLAMP]

### FRONT FOG LAMP AIMING ADJUSTMENT

# Aiming Adjustment Procedure

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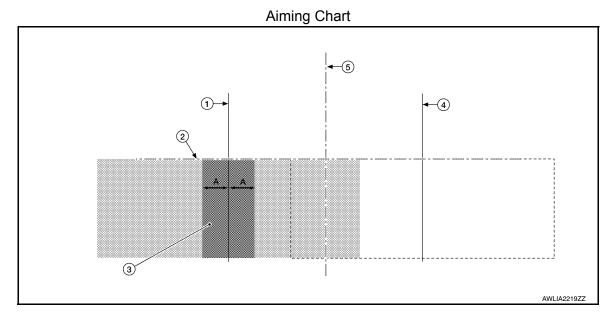
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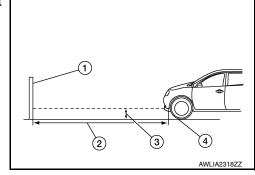
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- Vertical center line of front fog lamp (LH)
- 4. Vertical center line of front fog lamp (RH)
- Lamp center above ground
- Vertical center axis
- 3. Front fog lamp high intensity area (LH)
- A. 100mm (4in)

#### NOTE:

- (LH) Front fog lamp aiming specifications shown, (RH) similar.
- Check the following conditions before performing the aiming adjustment.
- Keep all tires inflated to correct pressure.
- Place vehicle on level ground.
- See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have the driver or equivalent weight placed in driver seat.
- When performing adjustment, if necessary, cover the headlamps and opposite front fog lamp.
- 1. Set the distance between the screen and the center of the front fog lamp lens as shown.
  - (1) Aiming screen or a matte white surface
  - (2) 7.62 m (25 ft)
  - (3) Floor to center of front fog lamp lens
  - (4) Floor



Turn front fog lamps ON.

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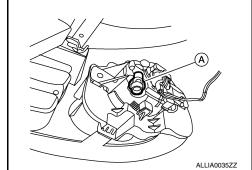
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### FRONT FOG LAMP AIMING ADJUSTMENT

### < PERIODIC MAINTENANCE >

[LED HEADLAMP]

 Access adjusting screw (A) from underneath front bumper fascia. Adjust front fog lamps using adjusting screw so that the top edge of the high intensity zone is at the front fog lamp centers above ground.



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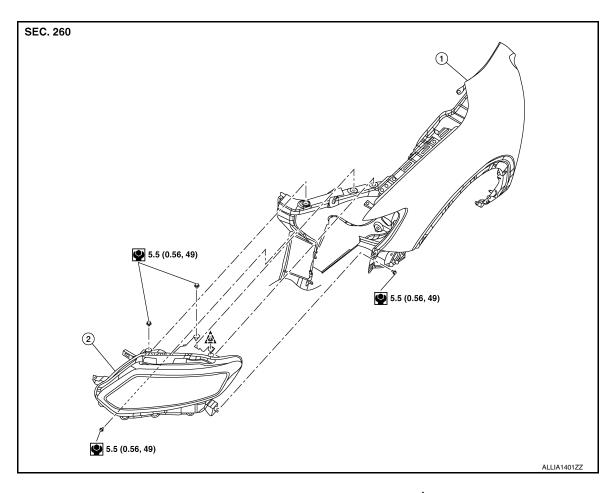
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# REMOVAL AND INSTALLATION

## FRONT COMBINATION LAMP

Exploded View



Front fender

Front combination lamp



### Removal and Installation

INFOID:0000000012423166

#### **REMOVAL**

- 1. Remove front bumper fascia. Refer to EXT-17, "Removal and Installation".
- 2. Remove front combination lamp bolts and clip.
- 3. Pull front combination lamp forward.
- 4. Disconnect the harness connectors from the front combination lamp and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

#### NO IE:

After installation, perform headlamp aiming adjustment. Refer to EXL-115, "Inspection".

# **Bulb Replacement**

INFOID:0000000012423167

### HEADLAMP (LOW BEAM) BULB

The headlamp (low beam) bulb is not serviced separately. Refer to EXL-253, "Removal and Installation".

#### HEADLAMP (HIGH BEAM) BULB

The headlamp (high beam) bulb is not serviced separately. Refer to EXL-253, "Removal and Installation".

## FRONT COMBINATION LAMP

#### < REMOVAL AND INSTALLATION >

[LED HEADLAMP]

### SIDE MARKER LAMP BULB

The side marker lamp bulb is not serviced separately. Refer to EXL-253, "Removal and Installation".

### TURN SIGNAL LAMP BULB

#### Removal

- 1. Rotate bulb socket counterclockwise and remove from the front combination lamp.
- 2. Remove the bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

### **CAUTION:**

After installing the bulb, install the bulb socket securely for watertightness.

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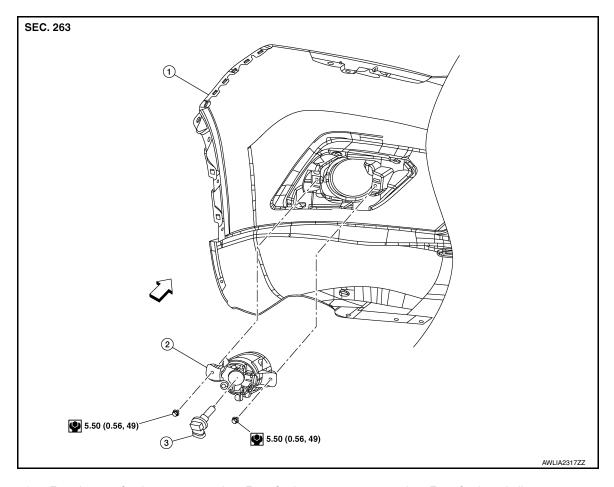
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## FRONT FOG LAMP

**Exploded View** INFOID:0000000012423170



Front bumper fascia

Front fog lamp

Front fog lamp bulb

<□ Front

#### Removal and Installation

INFOID:0000000012423171

#### REMOVAL

- Partially remove front fender protector. Refer to <u>EXT-29</u>, "FENDER PROTECTOR: Exploded View".
- 2. Disconnect the harness connector from the front fog lamp.
- Remove front fog lamp bolts and front fog lamp.

#### **INSTALLATION**

Installation in the reverse order of removal.

### NOTE:

After installation, perform front fog lamp aiming adjustment. Refer to EXL-118, "Aiming Adjustment Procedure".

## **Bulb Replacement**

## **WARNING:**

Do not touch bulb by hand while it is lit or right after being turned off. Burning may result. **CAUTION:** 

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

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2016 Rogue NAM

INFOID:0000000012423172

### FRONT FOG LAMP

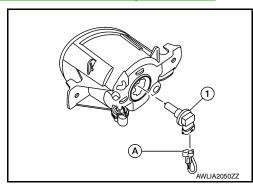
### < REMOVAL AND INSTALLATION >

[LED HEADLAMP]

• Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### **REMOVAL**

- 1. Partially remove front fender protector. Refer to EXT-29, "FENDER PROTECTOR: Exploded View".
- 2. Disconnect the harness connector (A) from the front fog lamp.
- 3. Rotate bulb (1) counterclockwise and remove.



#### **INSTALLATION**

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install the bulb socket securely for watertightness.

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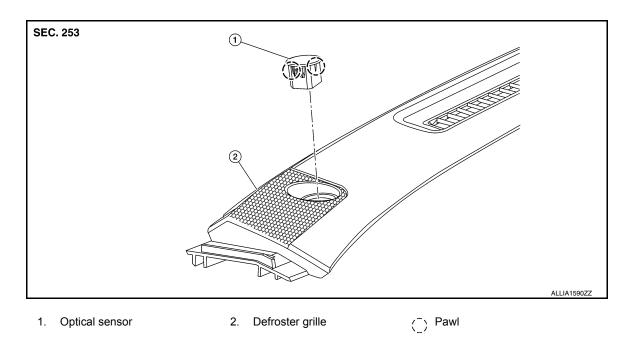
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# OPTICAL SENSOR

Exploded View

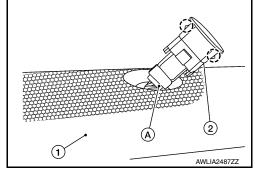


Removal and Installation

INFOID:0000000012423174

### **REMOVAL**

- 1. Release the optical sensor (2) from defroster grille (1) using a suitable tool.
- 2. Disconnect the harness connector (A) from the optical sensor (2) and remove.



**INSTALLATION** 

Installation is in the reverse order of removal.

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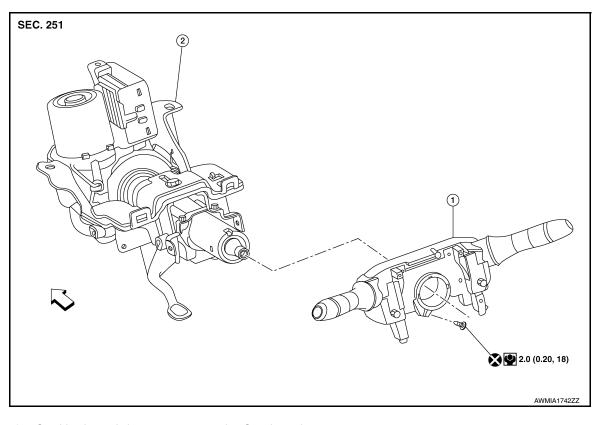
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## **COMBINATION SWITCH**

Exploded View



1. Combination switch

2. Steering column

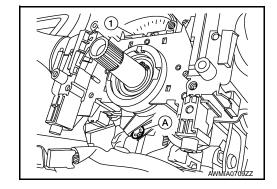
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## Removal and Installation

INFOID:0000000012423176

### **REMOVAL**

- 1. Remove the steering angle sensor. Refer to BRC-189, "Removal and Installation".
- 2. Disconnect harness connector from combination switch.
- 3. Remove screw (A) and combination switch (1).



#### **INSTALLATION**

Installation is in the reverse order of removal.

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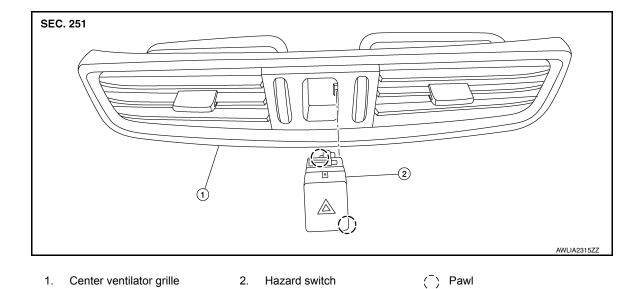
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## **HAZARD SWITCH**

# **Exploded View**



## Removal and Installation

INFOID:0000000012423178

### **REMOVAL**

- 1. Remove center ventilator grille. Refer to <u>VTL-13, "CENTER VENTILATOR GRILLE: Removal and Installation"</u>.
- 2. Release the pawls and remove the hazard switch.

#### **INSTALLATION**

Installation is in the reverse order of removal.

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### SIDE TURN SIGNAL LAMP

< REMOVAL AND INSTALLATION >

[LED HEADLAMP]

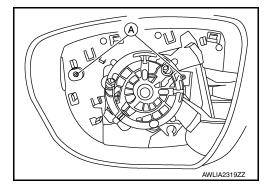
## SIDE TURN SIGNAL LAMP

## Removal and Installation

INFOID:0000000012423179

#### **REMOVAL**

- 1. Remove door mirror rear finisher. Refer to MIR-26, "Removal and Installation".
- 2. Remove door mirror glass. Refer to MIR-24, "Removal and Installation".
- 3. Remove the screws (A) and reposition side turn signal lamp.



4. Disconnect the harness connector from the side turn signal lamp and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

## **Bulb Replacement**

INFOID:0000000012423180

The side turn signal lamp bulb is not serviced separately. Refer to EXL-127, "Removal and Installation".

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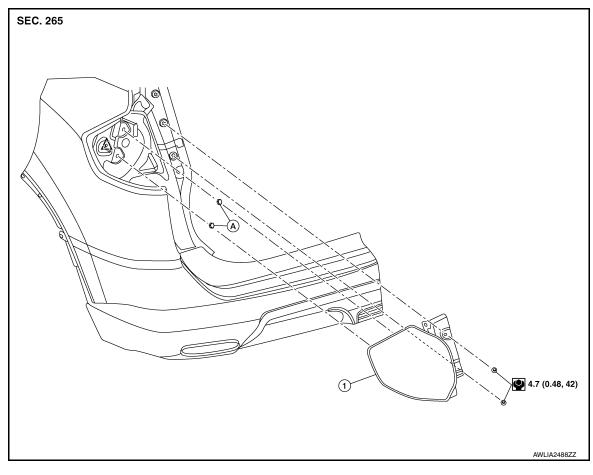
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## REAR COMBINATION LAMP

Exploded View



Rear combination lamp

A. Grommet

B. Clip

### Removal and Installation

INFOID:0000000012423182

#### **REMOVAL**

1. Remove side air spoiler. Refer to EXT-48, "Removal and Installation".

- 2. Remove rear combination lamp bolts.
- 3. Pull rear combination lamp rearward to release from clip and locators.
- 4. Disconnect the harness connector from the rear combination lamp and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

## Bulb Replacement

INFOID:0000000012423183

#### **WARNING:**

Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result. CAUTION:

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

### STOP LAMP BULB

### **REAR COMBINATION LAMP**

#### < REMOVAL AND INSTALLATION >

[LED HEADLAMP]

#### Removal

- Remove rear combination lamp. Refer to <u>EXL-128</u>, "Removal and Installation".
- Rotate stop lamp bulb socket counterclockwise and remove.
- 3. Remove stop lamp bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install bulb socket securely for watertightness.

#### TAIL LAMP BULB

#### Removal

- Remove rear combination lamp. Refer to <u>EXL-128</u>, "Removal and Installation".
- 2. Rotate tail lamp bulb socket counterclockwise and remove.
- 3. Remove tail lamp bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install bulb socket securely for watertightness.

### TURN SIGNAL LAMP BULB

#### Removal

- Remove rear combination lamp. Refer to EXL-128, "Removal and Installation".
- 2. Rotate turn signal lamp bulb socket counterclockwise and remove.
- 3. Remove turn signal lamp bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install bulb socket securely for watertightness.

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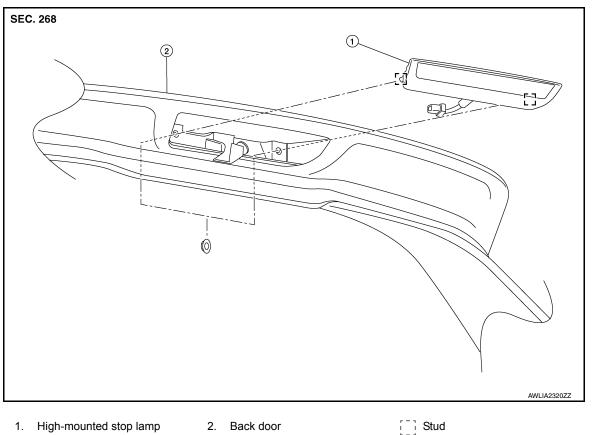
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## **HIGH-MOUNTED STOP LAMP**

**Exploded View** INFOID:0000000012423184



2. Back door

## Removal and Installation

**REMOVAL** 

- Remove access cover using a suitable tool. Refer to <a href="INT-38">INT-38</a>, "Exploded View". Remove high-mounted stop lamp nuts.
- Disconnect the harness connector from high-mounted stop lamp and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

## **Bulb Replacement**

### INFOID:0000000012423186

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#### HIGH-MOUNTED STOP LAMP BULB

The high-mounted stop lamp bulb is not serviced separately. Refer to EXL-130, "Removal and Installation".

**EXL-263** Revision: September 2015 2016 Rogue NAM

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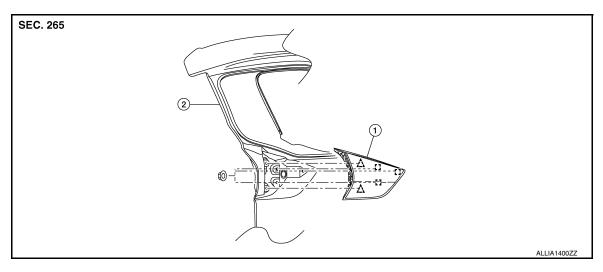
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## **BACK-UP LAMP ASSEMBLY**

Exploded View



1. Back-up lamp assembly

2. Back door

\_^\ Clip

[] Stud

### Removal and Installation

INFOID:0000000012423188

#### REMOVAL

- 1. Remove back door finisher. Refer to <a href="INT-38">INT-38</a>, "Removal and Installation".
- Remove back-up lamp assembly nuts.
- 3. Pull back-up lamp assembly rearward, disconnect the harness connector and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

## **Bulb Replacement**

INFOID:0000000012423189

#### **WARNING:**

Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result. CAUTION:

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### TAIL LAMP BULB

#### Removal

- Remove back-up lamp assembly. Refer to <u>EXL-131, "Removal and Installation"</u>.
- Rotate tail lamp bulb socket counterclockwise and remove.
- 3. Remove tail lamp bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install bulb socket securely for watertightness.

#### **BACK-UP LAMP BULB**

Removal

### **BACK-UP LAMP ASSEMBLY**

## < REMOVAL AND INSTALLATION >

[LED HEADLAMP]

- Remove back-up lamp assembly. Refer to <u>EXL-131, "Removal and Installation"</u>.
- 2. Rotate back-up lamp bulb socket counterclockwise and remove.
- 3. Remove back-up lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

**CAUTION:** 

After installing the bulb, install bulb socket securely for watertightness.

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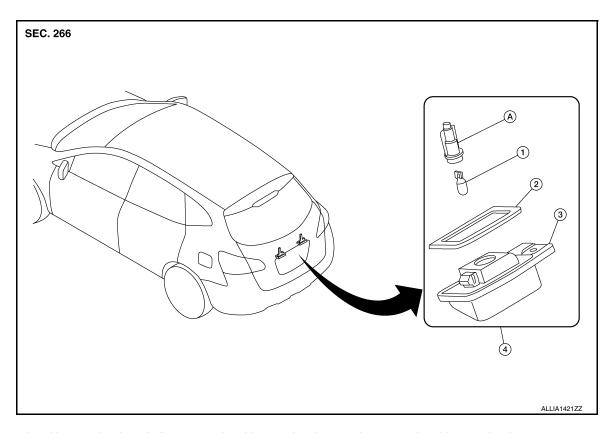
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## LICENSE PLATE LAMP

Exploded View

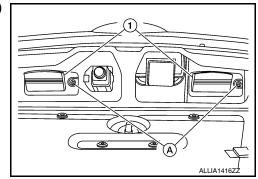


- License plate lamp bulb
  - License plate lamp assembly A. L
- 2. License plate lamp seal
  - License plate lamp bulb socket
- License plate lamp

### Removal and Installation

## **REMOVAL**

- 1. Release the license lamp finisher. Refer to EXT-50, "Exploded View".
- 2. Remove the screw (A) (LH or RH) and pull license plate lamp (1) (LH or RH) rearward.



3. Disconnect the harness connector from the license plate lamp and remove.

### INSTALLATION

Installation is in the reverse order of removal.

## **Bulb Replacement**

#### INFOID:0000000012423192

INFOID:0000000012423191

#### **WARNING:**

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result.

## LICENSE PLATE LAMP

#### < REMOVAL AND INSTALLATION >

[LED HEADLAMP]

#### **CAUTION:**

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

#### REMOVAL

- 1. Remove license plate lamp. Refer to <a href="EXL-266">EXL-266</a>, "Removal and Installation".
- 2. Rotate license plate lamp bulb socket counterclockwise and remove.
- 3. Remove license plate lamp bulb from bulb socket.

#### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

After installing the bulb, install the bulb socket securely for watertightness.

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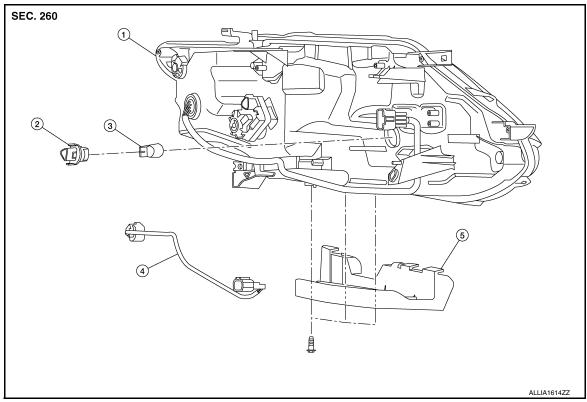
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# **UNIT DISASSEMBLY AND ASSEMBLY**

## FRONT COMBINATION LAMP

**Exploded View** INFOID:0000000012423193



- 1. Front combination lamp
- 2. Turn signal lamp bulb socket

3. Turn signal lamp bulb

- Front combination lamp harness 5.
- Front combination lamp mounting bracket

## Disassembly and Assembly

INFOID:0000000012423194

### DISASSEMBLY

- Remove front combination lamp. Refer to EXL-253, "Removal and Installation".
- Rotate the turn signal lamp bulb socket counterclockwise and remove.
- Remove the turn signal lamp bulb from the bulb socket.

#### **ASSEMBLY**

Assembly is in the reverse order of disassembly.

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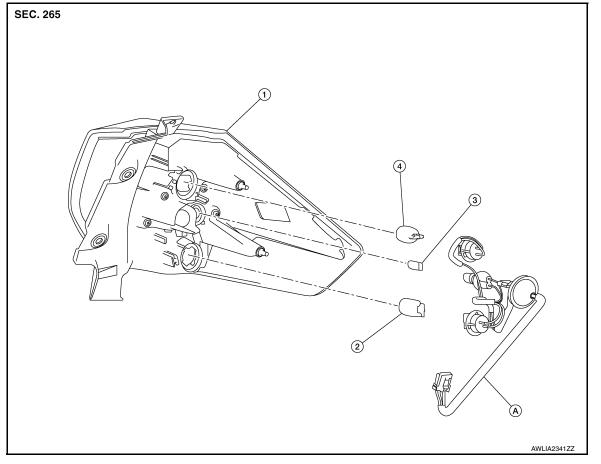
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## **REAR COMBINATION LAMP**

## **Exploded View**



- 1. Rear combination lamp
- 2. Turn signal lamp bulb
- A. Rear combination lamp harness
- 3. Tail lamp bulb

## Disassembly and Assembly

4. Stop lamp bulb

## **DISASSEMBLY**

- Remove rear combination lamp. Refer to <u>EXL-261, "Removal and Installation"</u>.
- 2. Rotate the stop lamp bulb socket counterclockwise and remove.
- 3. Remove the stop lamp bulb from the bulb socket.
- 4. Rotate the tail lamp bulb socket counterclockwise and remove.
- 5. Remove the tail lamp bulb from the bulb socket.
- 6. Rotate the turn signal lamp bulb socket counterclockwise and remove.
- 7. Remove the turn signal lamp bulb from bulb socket.

#### **ASSEMBLY**

Assembly is in the reverse order of disassembly.

#### **CAUTION:**

After installing, be sure to install the bulb sockets securely to ensure watertightness.

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INFOID:0000000012423196

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## **SERVICE DATA AND SPECIFICATIONS (SDS)**

< SERVICE DATA AND SPECIFICATIONS (SDS)

[LED HEADLAMP]

# SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS)

## **Bulb Specifications**

INFOID:0000000012423197

|                        | Item                 | Wattage (W)* |
|------------------------|----------------------|--------------|
| Front combination lamp | High beam            | _            |
|                        | Low beam             | _            |
|                        | Turn signal lamp     | 28/8         |
|                        | Side marker lamp     | _            |
|                        | Daytime running lamp | _            |
| Front fog lamp         |                      | 55           |
| Side turn signal lamp  |                      | _            |
| Rear combination lamp  | Stop lamp            | 21           |
|                        | Tail lamp            | 5            |
|                        | Turn signal lamp     | 21           |
| Back-up lamp           | Tail lamp            | 5            |
|                        | Back-up lamp         | 16           |
| License plate lamp     |                      | 5            |
| High-mounted stop lamp |                      | _            |

<sup>\*:</sup> Always check with the Parts Department for the latest parts info.