# SECTION EXL
# EXTERIOR LIGHTING SYSTEM

## CONTENTS

### XENON TYPE

# PRECAUTION

## PRECAUTIONS
## FOR USA AND CANADA

### FOR USA AND CANADA : Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:0000000010840507

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted.
Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

**WARNING:**

**Always observe the following items for preventing accidental activation.**

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 “SRS AIR BAG”.**
- **Never 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:**

**Always observe the following items for preventing accidental activation.**

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

### FOR USA AND CANADA : Precautions For Xenon Headlamp Service

INFOID:0000000010840508

**WARNING:**

**Comply with the following warnings to prevent any serious accident.**

- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)**
- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

**CAUTION:**

**Comply with the following cautions to prevent any error and malfunction.**

- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

## FOR USA AND CANADA : Precaution for Battery Service

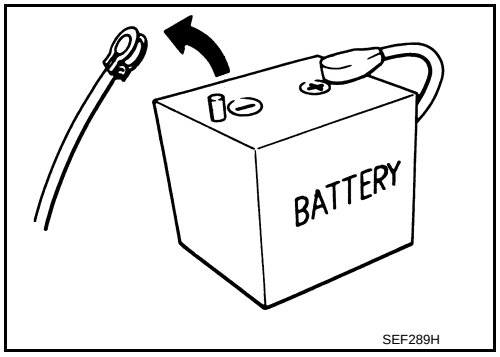
INFOID:0000000010840509

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

## FOR USA AND CANADA : Precautions for Removing Battery Terminal

INFOID:0000000011350216

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  **NOTE:**
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  **NOTE:**
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



SEF289H

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  **NOTE:**
  The removal of 12V battery may cause a DTC detection error.

## FOR MEXICO

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

INFOID:0000000010840510

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 “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

**WARNING:**
**Always observe the following items for preventing accidental activation.**
- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 “SRS AIR BAG”.**
- **Never 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:**
**Always observe the following items for preventing accidental activation.**
- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

## FOR MEXICO : Precautions For Xenon Headlamp Service

INFOID:0000000010840511

**WARNING:**
**Comply with the following warnings to prevent any serious accident.**

- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)**
- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

**CAUTION:**

**Comply with the following cautions to prevent any error and malfunction.**

- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

## FOR MEXICO : Precaution for Battery Service

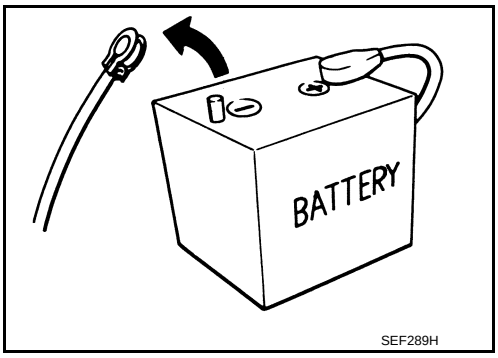
INFOID:0000000010840512

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

## FOR MEXICO : Precautions for Removing Battery Terminal

INFOID:0000000011350217

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  **NOTE:**
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  **NOTE:**
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.




- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  **NOTE:**
  The removal of 12V battery may cause a DTC detection error.

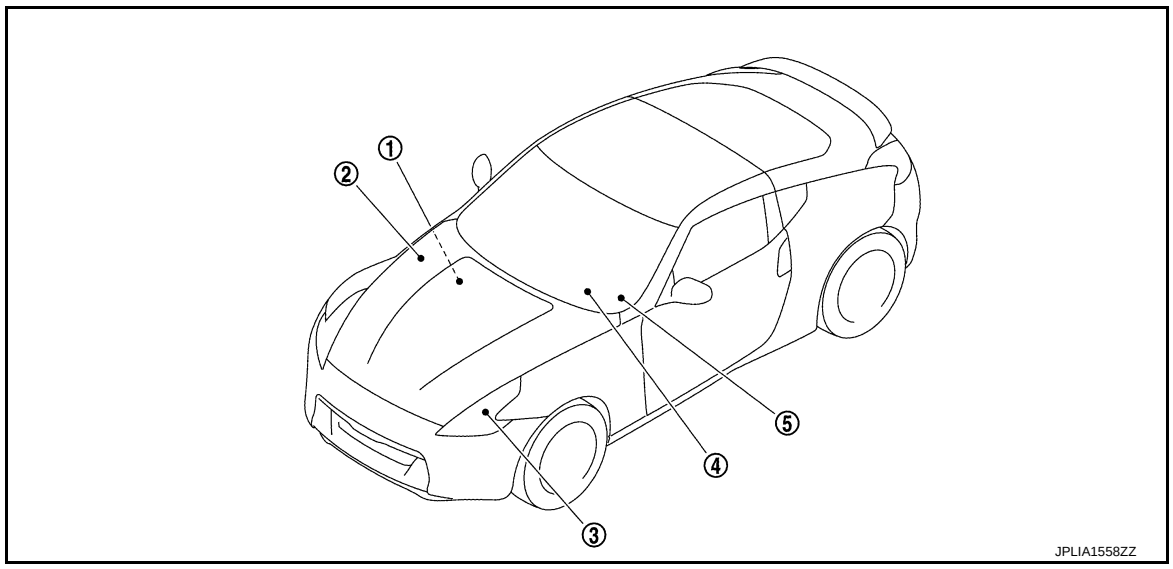
# SYSTEM DESCRIPTION

## COMPONENT PARTS

### HEADLAMP SYSTEM

#### HEADLAMP SYSTEM : Component Parts Location

INFOID:0000000010840513




1. BCM
   Refer to BCS-10, "Component Parts Location".
2. IPDM E/R
   Refer to PCS-5, "Component Parts Location".
3. Headlamp
4. Combination meter
   (High beam indicator lamp)
5. Combination switch

#### HEADLAMP SYSTEM : Component Description

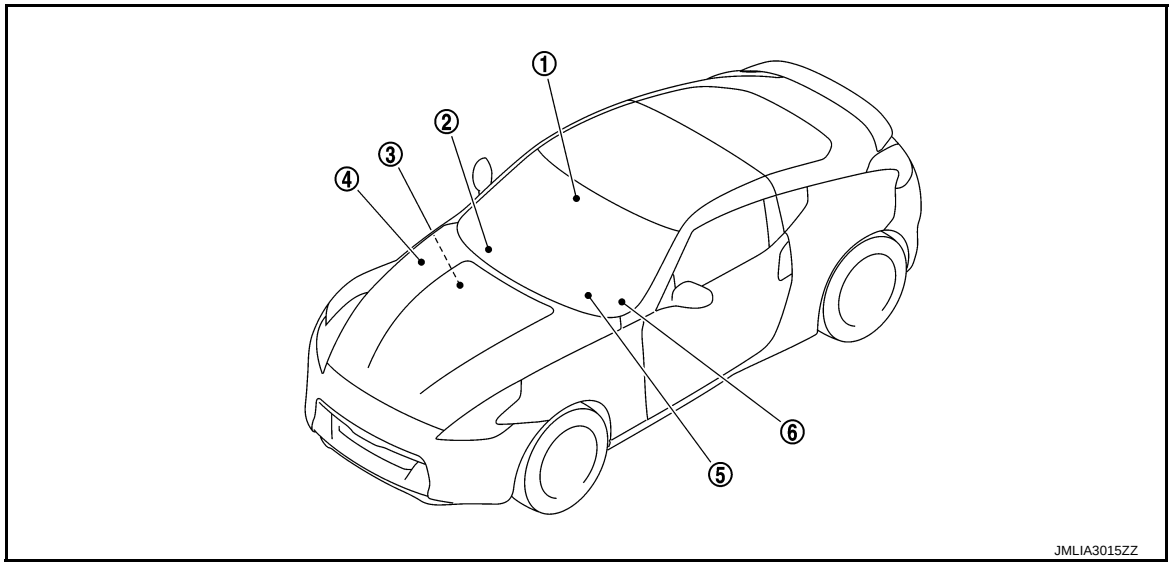
INFOID:0000000010840514

| Part | | Description |
|---|---|---|
| BCM | | • Detects each switch condition by the combination switch reading function.<br>• Judges that the headlamp is turned ON according to the vehicle condition.<br>- Requests the headlamp relay (HI/LO) ON to IPDM E/R (with CAN communication).<br>- Requests the high beam indicator lamp ON to the combination meter (with CAN communication). |
| IPDM E/R | | Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication). |
| Combination switch<br>(Lighting & turn signal switch) | | Refer to BCS-11, "System Diagram". |
| Combination meter<br>(High beam indicator lamp) | | Turns the high beam indicator lamp ON according to the request from BCM (with CAN communication). |
| Headlamp assembly | • HID control unit<br>• Xenon bulb | Refer to EXL-79, "Description". |
| | High beam solenoid | Refer to EXL-75, "Description". |

### AUTO LIGHT SYSTEM

## AUTO LIGHT SYSTEM : Component Parts Location

INFOID:0000000010840515




1. Door switch
2. Optical sensor
3. BCM
   Refer to BCS-10, "Component Parts Location".
4. IPDM E/R
   Refer to PCS-5, "Component Parts Location".
5. Combination meter
6. Combination switch

## AUTO LIGHT SYSTEM : Component Description

INFOID:0000000010840516

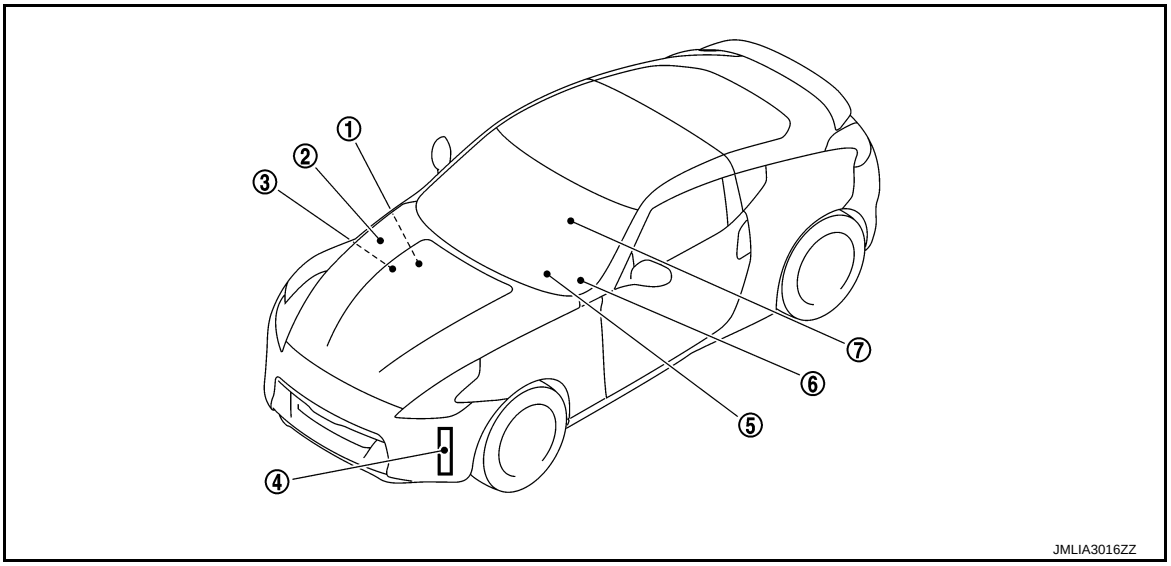
| Part | Description |
|---|---|
| BCM | • Detects each switch condition by the combination switch reading function.<br>• Judges the outside brightness from the optical sensor signal.<br>• Judges the OFF timing according to the vehicle condition.<br>• Judges the ON/OFF status of the exterior lamp and each illumination according to the outside brightness and the vehicle condition.<br>- Requests ON/OFF of each relay to IPDM E/R (with CAN communication). |
| IPDM E/R | Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication). |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". |
| Optical sensor | Refer to EXL-88, "Description". |

# DAYTIME RUNNING LIGHT SYSTEM

## DAYTIME RUNNING LIGHT SYSTEM : Component Parts Location

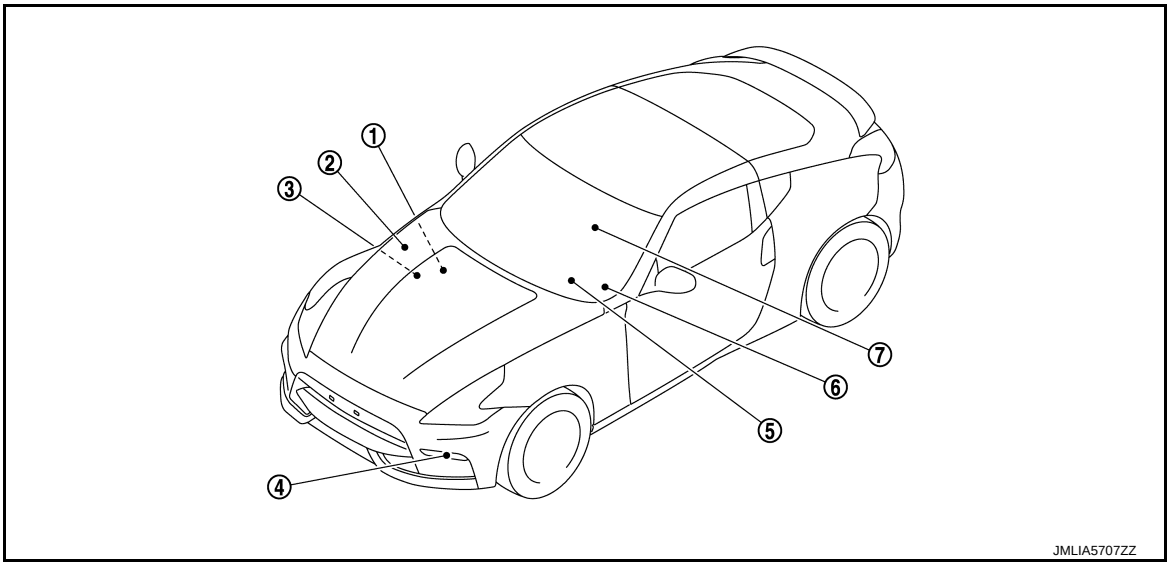
INFOID:0000000010840517

EXCEPT NISMO




1. BCM
   Refer to BCS-10, "Component Parts Location".
2. IPDM E/R
   Refer to PCS-5, "Component Parts Location".
3. ECM
   Refer to EC-40, "Component Parts Location".
4. Daytime running light
5. Combination meter
6. Combination switch
7. Parking brake switch

NISMO




1. BCM
   Refer to BCS-10, "Component Parts Location".
2. IPDM E/R
   Refer to PCS-5, "Component Parts Location".
3. ECM
   Refer to EC-40, "Component Parts Location".
4. Daytime running light
5. Combination meter
6. Combination switch
7. Parking brake switch

## DAYTIME RUNNING LIGHT SYSTEM : Component Description

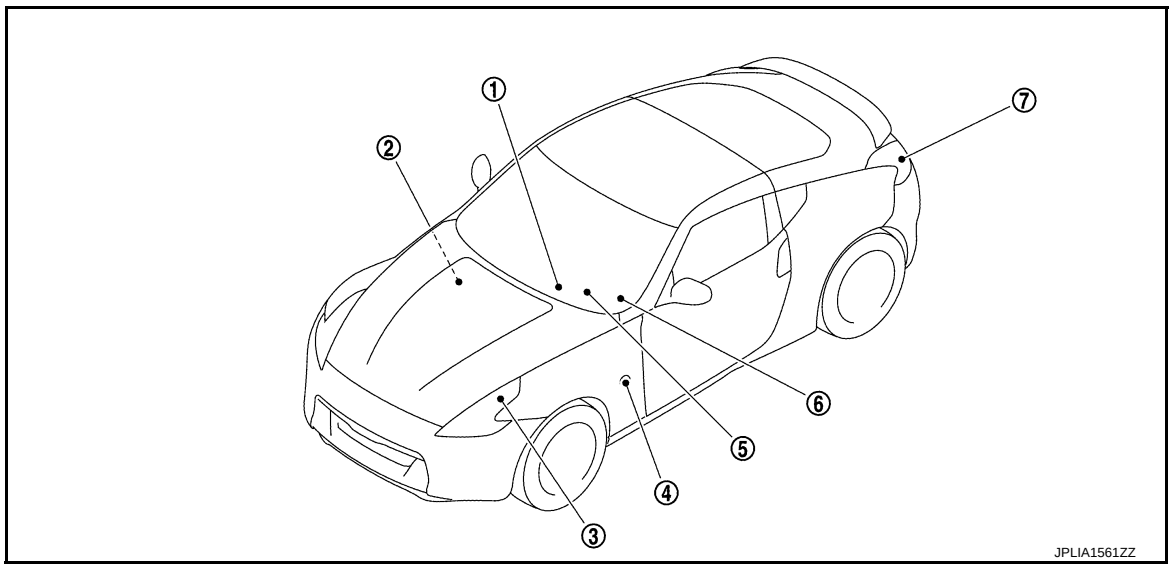
INFOID:0000000010840518

| Part | Description |
|---|---|
| BCM | • Detects each switch condition with the combination switch reading function.<br>• Judges each lamps ON/OFF condition according to the vehicle condition.<br>- Requests the each relay ON to IPDM E/R (with CAN communication). |
| IPDM E/R | Controls the integrated relay and supplies voltage to the load according to the request from BCM (with CAN communication). |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". |
| ECM | Transmits the engine status signal to BCM with CAN communication. |
| Combination meter | Transmits the parking brake switch signal to BCM with CAN communication. |

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

## TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : Component Parts Location

INFOID:0000000010840519




1. Hazard switch
2. BCM
   Refer to BCS-10, "Component Parts Location".
3. Front turn signal lamp
4. Side turn signal lamp*
5. Combination meter
   (Turn signal indicator lamp)
6. Combination switch
7. Rear turn signal lamp

*: With side turn signal lamp

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

INFOID:0000000010840520

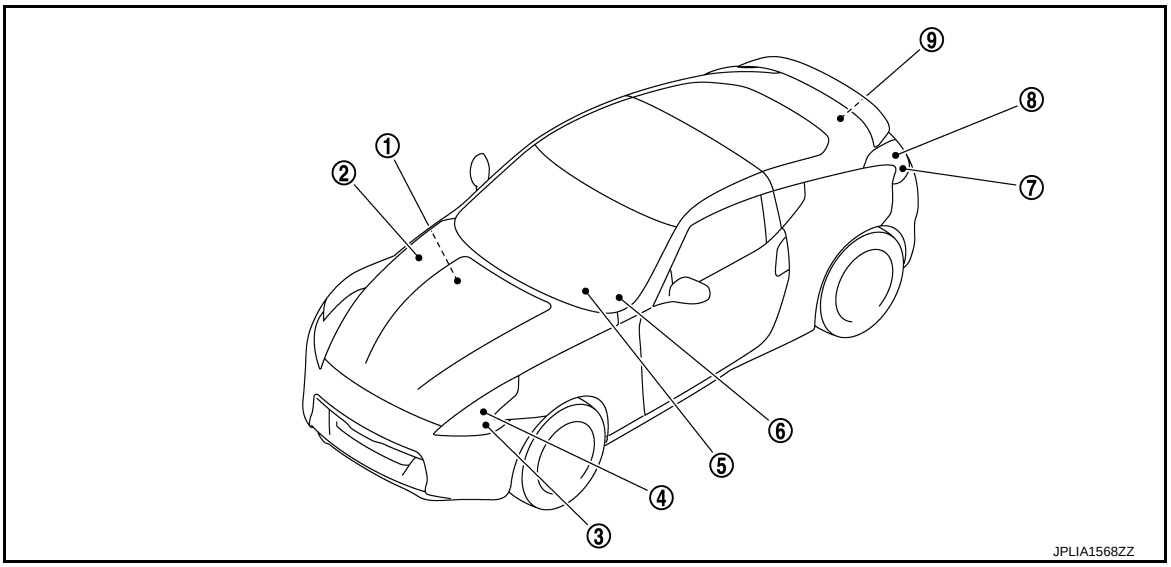
| Part | Description |
|---|---|
| BCM | • Detects each switch condition by the combination switch reading function.<br>• Judges the blinks of the turn signal lamp and the hazard warning lamp from each switch status. The applicable turn signal lamp blinks.<br>- Requests the turn signal indicator lamp blink to the combination meter (with CAN communication). |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". |

| Part | Description |
|---|---|
| Hazard switch | Inputs the hazard switch ON/OFF signal to BCM. |
| Combination meter<br>(Turn signal indicator lamp & buzzer) | Blinks the turn signal indicator lamp and outputs the turn signal operating sound with integrated buzzer according to the request from BCM (with CAN communication). |

# PARKING, LICENSE PLATE AND TAIL LAMPS

## PARKING, LICENSE PLATE AND TAIL LAMPS : Component Parts Location

INFOID:0000000010840521




1. BCM
   Refer to BCS-10, "Component Parts Location".
2. IPDM E/R
   Refer to PCS-5, "Component Parts Location".
3. Parking lamp
4. Front side marker lamp
5. Combination meter
   (Tail lamp indicator lamp)
6. Combination switch
7. Rear side marker lamp
8. Tail lamp
9. License plate lamp

## PARKING, LICENSE PLATE AND TAIL LAMPS : Component Description

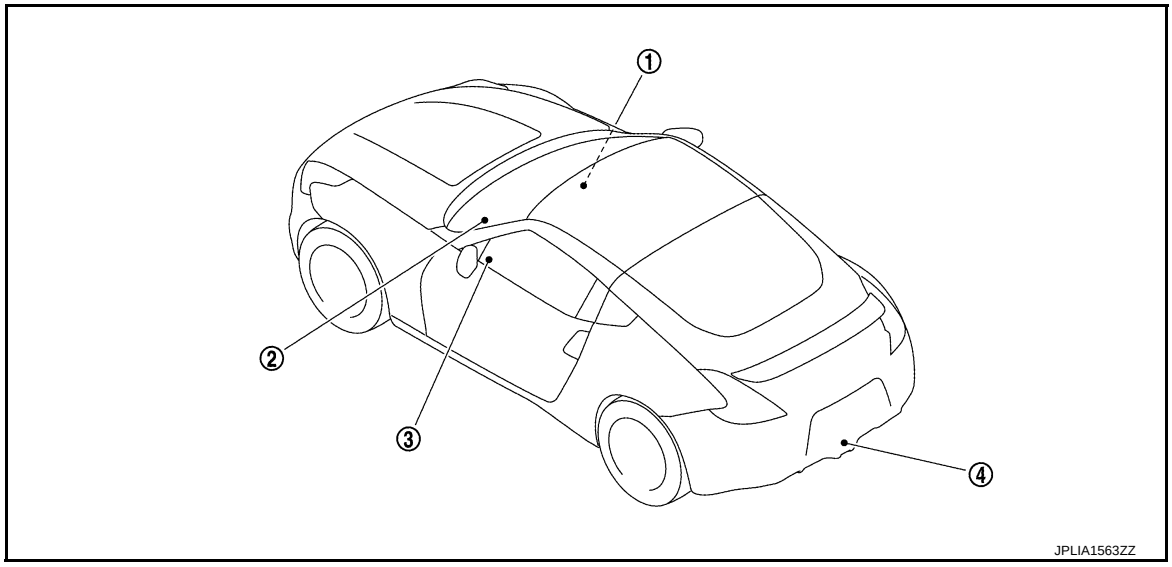
INFOID:0000000010840522

| Part | Description |
|---|---|
| BCM | • Detects each switch condition by the combination switch reading function.<br>• Judges the ON/OFF status of the parking, license plate, tail and side marker lamps according to the vehicle condition.<br>- Requests the tail lamp relay ON to IPDM E/R (with CAN communication).<br>- Requests the tail lamp indicator lamp ON to the combination meter (with CAN communication). |
| IPDM E/R | Controls the integrated relay and supplies voltage to the load according to the request from BCM (with CAN communication). |
| Combination switch<br>(Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". |
| Combination meter<br>(Tail lamp indicator lamp) | Turns the tail lamp indicator lamp ON according to the request from BCM (with CAN communication). |

# REAR FOG LAMP SYSTEM

## REAR FOG LAMP SYSTEM : Component Parts Location

INFOID:0000000010840523




1. BCM
   Refer to BCS-10, "Component Parts Location".
2. Combination meter
   (Rear fog lamp indicator lamp)
3. Combination switch
4. Rear fog lamp

## REAR FOG LAMP SYSTEM : Component Description

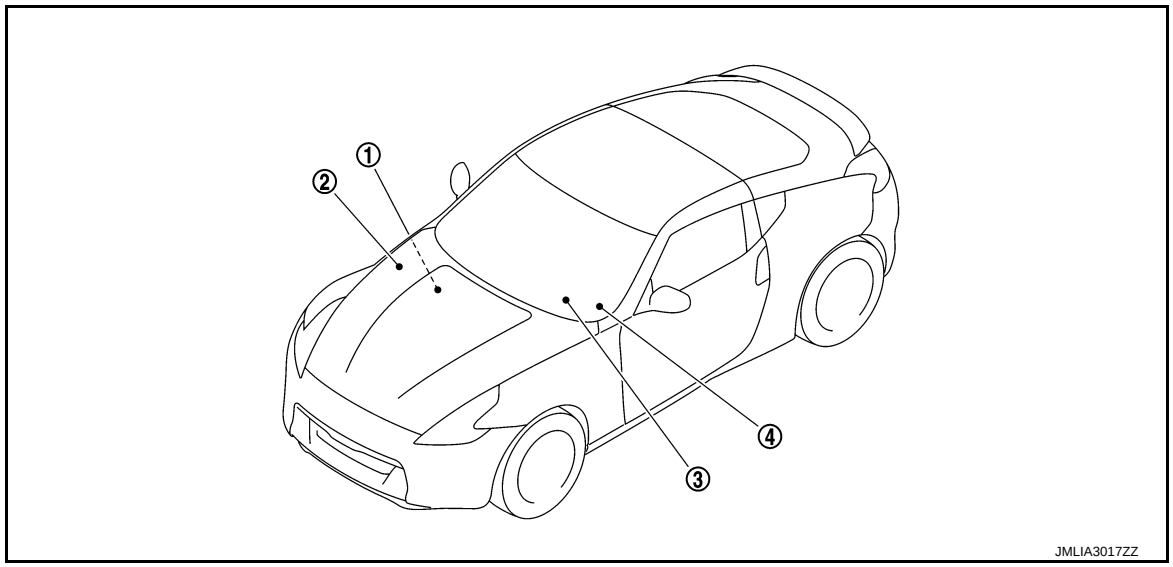
INFOID:0000000010840524

| Part | Description |
|---|---|
| BCM | • Detects each switch condition by the combination switch reading function.<br>• Judges that the rear fog lamp is turned ON according to the vehicle status<br>- Supplies voltage to the rear fog lamp<br>- Requests the rear fog lamp indicator lamp ON to the combination meter (with CAN communication). |
| Combination switch<br>(Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". |
| Combination meter<br>(Rear fog lamp indicator lamp) | Turns the rear fog lamp indicator lamp ON according to the request from BCM (with CAN communication). |

# EXTERIOR LAMP BATTERY SAVER SYSTEM

## EXTERIOR LAMP BATTERY SAVER SYSTEM : Component Parts Location

INFOID:0000000010840525




1. BCM
   Refer to BCS-10, "Component Parts Location".
2. IPDM E/R
   Refer to PCS-5, "Component Parts Location".
3. Combination meter
4. Combination switch

## EXTERIOR LAMP BATTERY SAVER SYSTEM : Component Description

INFOID:0000000010840526

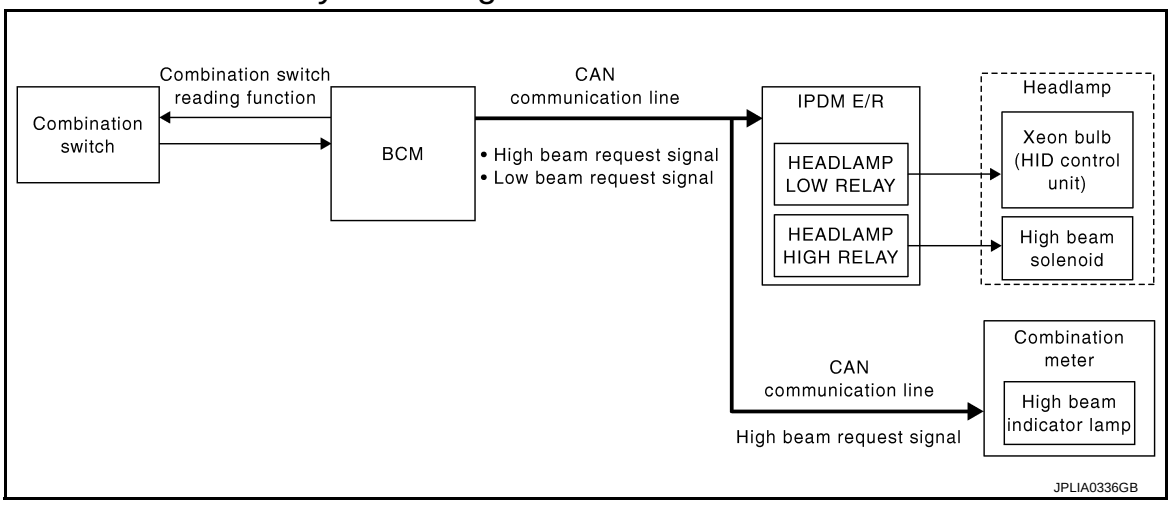
| Part | Description |
|---|---|
| BCM | • Detects each switch condition by the combination switch reading function.<br>• Judges the exterior lamp OFF according to the vehicle condition.<br>- Requests each relay OFF to IPDM E/R (with CAN communication).<br>- Turn rear fog lamp OFF. |
| IPDM E/R | Controls the integrated relay according to the request from BCM (with CAN communication). |
| Combination switch<br>(Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". |

# SYSTEM

## HEADLAMP SYSTEM

### HEADLAMP SYSTEM : System Diagram

INFOID:0000000010840527




### HEADLAMP SYSTEM : System Description

INFOID:0000000010840528

#### OUTLINE

- Mobile valve shade type is adopted. Xenon headlamp switches the high beam and the low beam with one xenon bulb each on right and left.
- Headlamp is controlled by combination switch reading function and headlamp control function of BCM, and relay control function of IPDM E/R.

#### HEADLAMP BASIC 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 ON condition.

Headlamp ON condition
- Lighting switch 2ND
- Lighting switch PASS
- Lighting switch AUTO, and the auto light function ON judgment

- IPDM E/R turns the integrated headlamp low relay ON, and turns the headlamp ON according to the low beam request signal.

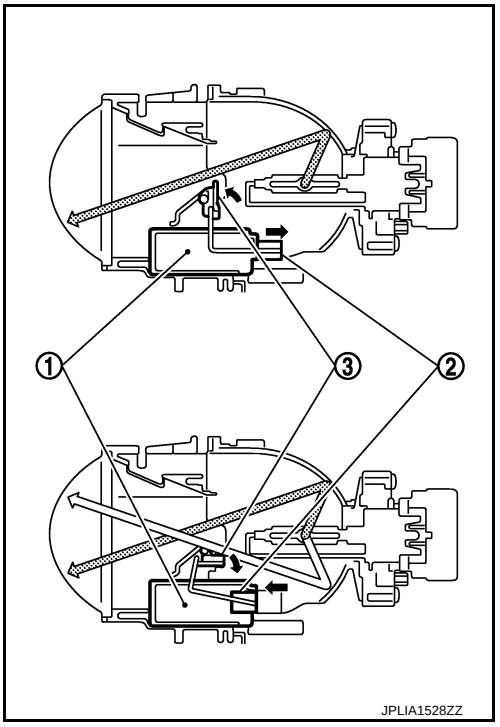
#### HEADLAMP HI/LO SWITCHING OPERATION

- BCM transmits the high beam request signal to IPDM E/R and the combination meter with CAN communication according to the high beam switching condition.

High beam switching condition
- Lighting switch HI with the headlamp ON
- Lighting switch PASS

- Combination meter turns the high beam indicator lamp ON according to the high beam request signal.
- IPDM E/R turns the integrated headlamp high relay ON, and turns the headlamp ON according to the high beam request signal.

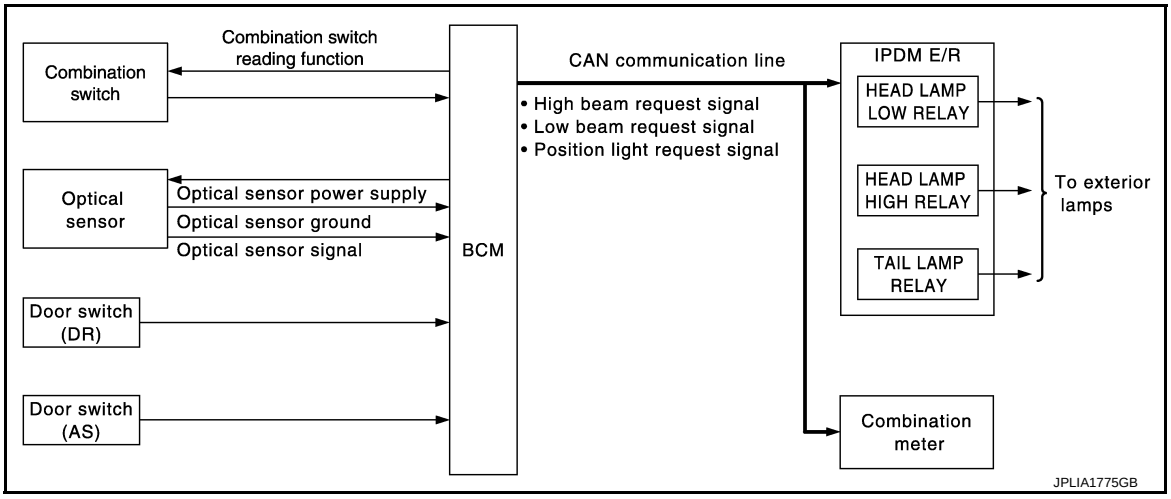
- When the headlamp high relay is turned ON, magnetic force is applied to the high beam solenoid (1) by a current. The mobile valve shade (3) is switched to the high beam position through the actuator rod (2).
- When the headlamp high relay is turned OFF, the current stops. The mobile valve shade returns to the low beam position automatically.




# AUTO LIGHT SYSTEM

## AUTO LIGHT SYSTEM : System Diagram

INFOID:0000000010840529




## AUTO LIGHT SYSTEM : System Description

INFOID:0000000010840530

### OUTLINE

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

Control by BCM
- Combination switch reading function
- Headlamp control function
- Auto light function
- Delay timer function

Control by IPDM E/R
- Relay control function
- Auto light system has the auto light function and the delay timer function.
- Auto light function turns the exterior lamps* and each illumination ON/OFF automatically according to 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, license plate lamp and tail lamp

**NOTE:**

Headlamp HI 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 with 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 EXL-22, "HEADLAMP : CONSULT Function (BCM - HEAD LAMP)".

### 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 EXL-22, "HEADLAMP : CONSULT Function (BCM - HEAD LAMP)".

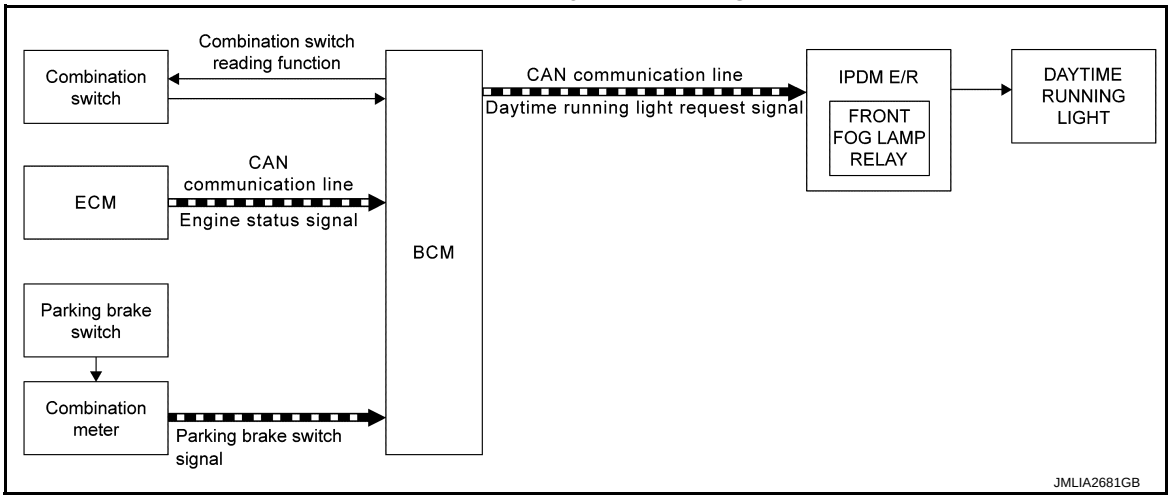
**NOTE:**

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 Diagram

INFOID:0000000010840531




### DAYTIME RUNNING LIGHT SYSTEM : System Description

INFOID:0000000010840532

### OUTLINE

- Daytime running light system is turned on daytime running light.
- Daytime running light is controlled by daytime running light control function and combination switch reading function of BCM, and relay control function of IPDM E/R.

### DAYTIME RUNNING LIGHT OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM detects the engine condition by the engine status signal received from ECM with CAN communication.

- BCM detects the parking brake condition by the parking brake switch signal received from combination meter with CAN communication.
- BCM detects ENGINE RUNNING condition by engine status signal and RELEASE condition by parking brake switch signal. And then, BCM transmits the daytime running light request signal to IPDM E/R with CAN communication according to any of the daytime running light ON condition.

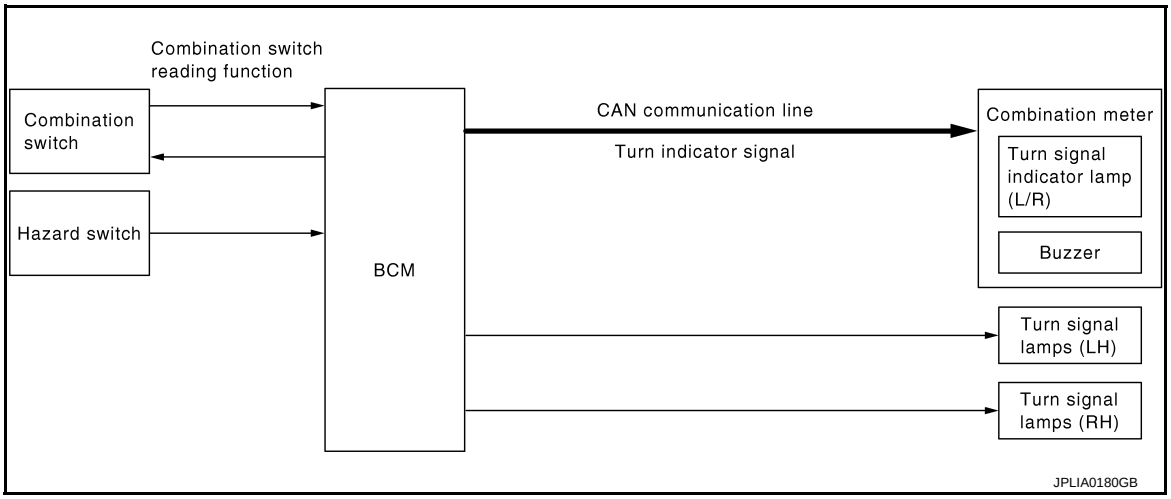
Daytime running light ON condition
- Lighting switch OFF
- Lighting switch AUTO and auto light judgement OFF

- IPDM E/R turns the integrated front fog lamp relay ON, and turns the daytime running light ON according to the daytime running light request signal.

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

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

INFOID:0000000010840533




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

INFOID:0000000010840534

### OUTLINE

Turn signal 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 turned 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 turned ON. BCM blinks the hazard warning lamp.

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

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

### 3-TIME FLASHER FUNCTION

- By a short touch of the turn signal lever, BCM blinks the turn signal lamps 3 times in the selected direction.
- Cancels the operation when short touch of the turn signal lever in the reverse direction during the 3-time flasher function operation.

### HIGH FLASHER OPERATION

- BCM detects the turn signal lamp circuit status from the current value.

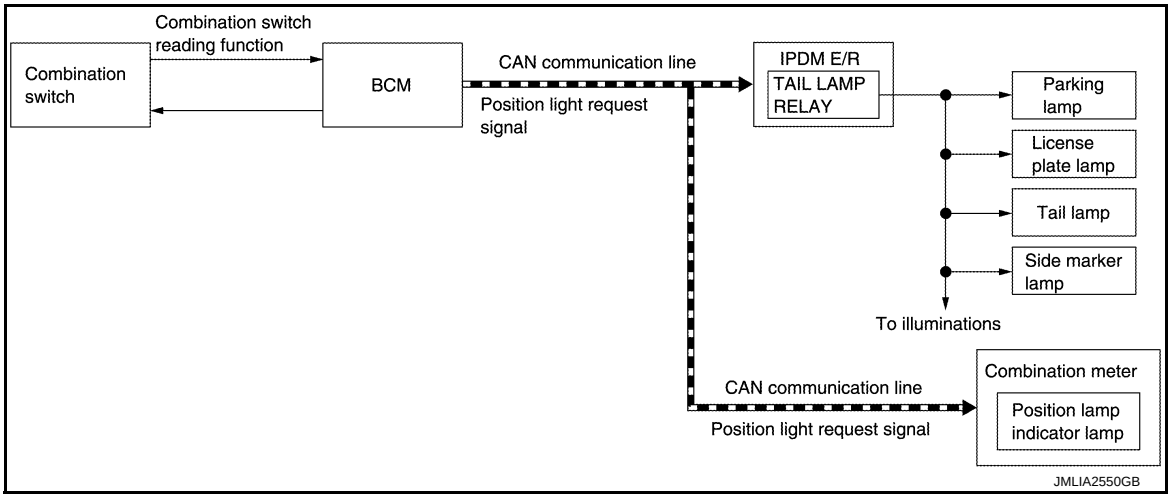
- BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

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

# PARKING, LICENSE PLATE AND TAIL LAMPS

## PARKING, LICENSE PLATE AND TAIL LAMPS : System Diagram

INFOID:0000000010840535




## PARKING, LICENSE PLATE AND TAIL LAMPS : System Description

INFOID:0000000010840536

### OUTLINE

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

### PARKING, LICENSE PLATE, TAIL AND SIDE MARKER 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 with CAN communication according to the ON/OFF condition of the parking, license plate, tail and side marker lamps.

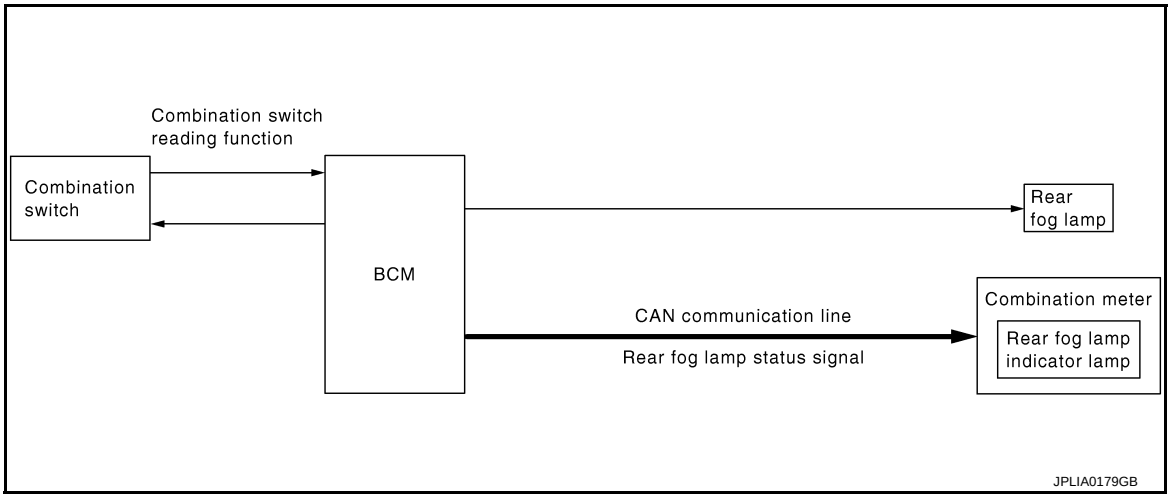
Parking, license plate, tail and side marker lamps ON condition
- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment

- IPDM E/R turns the integrated tail lamp relay ON and turns the parking, license plate, tail and side marker lamps ON according to the position light request signal.
- Combination meter turns the position lamp indicator lamp ON according to the position light request signal.

# REAR FOG LAMP SYSTEM

## REAR FOG LAMP SYSTEM : System Diagram

INFOID:0000000010840537




## REAR FOG LAMP SYSTEM : System Description

INFOID:0000000010840538

### OUTLINE

Rear fog lamp is controlled with the combination switch reading function and the rear fog lamp control function of BCM.

### REAR FOG LAMP OPERATION

- BCM detects the condition of the combination switch by the combination switch reading function.
- BCM supplies voltage to rear fog lamp according to the rear fog lamp ON condition.

Rear fog lamp ON condition
- When rear fog lamp switch signal is input (OFF → ON) with headlamp ON and rear fog lamp OFF

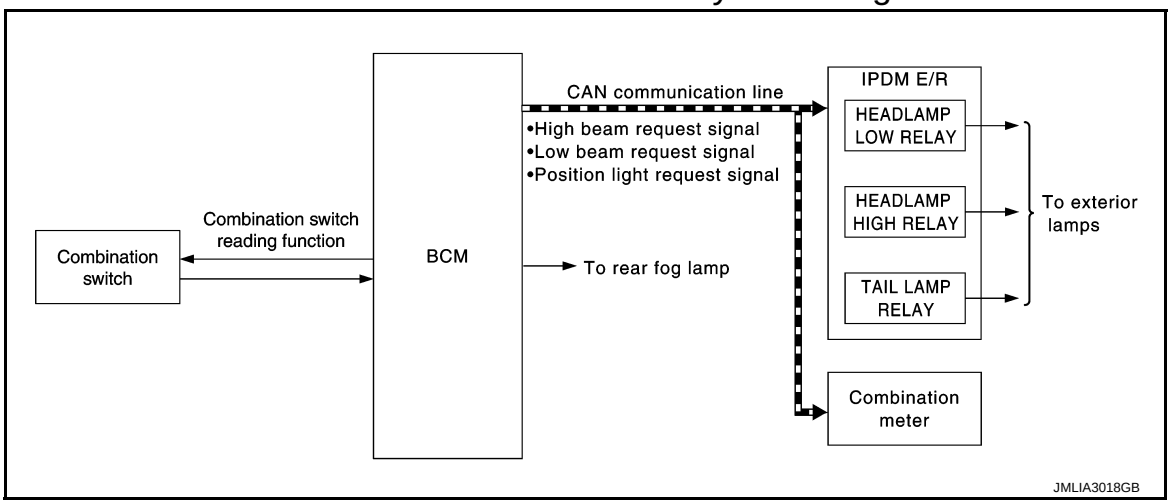
Rear fog lamp OFF condition (satisfied any condition as follows)
- When rear fog lamp switch signal is input (OFF → ON) with rear fog lamp ON
- Headlamp OFF

- BCM transmits the rear fog lamp status signal to the combination meter with CAN communication.
- Combination meter turns the rear fog lamp indicator lamp ON according to the rear fog lamp status signal.

# EXTERIOR LAMP BATTERY SAVER SYSTEM

## EXTERIOR LAMP BATTERY SAVER SYSTEM : System Diagram

INFOID:0000000010840539




## EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description

INFOID:0000000010840540

### OUTLINE

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

Control by BCM
- Combination switch reading function
- Headlamp control function
- Exterior lamp battery saver function

Control by IPDM E/R
- Relay control function
- BCM turns the exterior lamp* OFF after a period of time to prevent the battery from over-discharge when the ignition switch is turned OFF with the exterior lamp ON.

*: Headlamp (LO/HI), parking lamp, tail lamp, license plate lamp, side marker lamp and rear fog lamp.

**NOTE:**

When the lighting switch is turned AUTO, the exterior lamp battery saver switches to the auto light system. Refer to EXL-15, "AUTO LIGHT SYSTEM : System Diagram".

## EXTERIOR LAMP BATTERY SAVER ACTIVATION

BCM activates the timer and turns the exterior lamp OFF 45 seconds after the ignition switch is turned from ON → OFF with the exterior lamps ON.

**NOTE:**
- Headlamp control function turns the exterior lamps ON normally when the ignition switch is turned ACC or the engine started (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 lamp OFF.

# DIAGNOSIS SYSTEM (BCM)
## COMMON ITEM
### COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011287396

#### APPLICATION ITEM
CONSULT performs the following functions via CAN communication with BCM.

| Diagnosis mode | Function Description |
|---|---|
| Work Support | Changes the setting for each system function. |
| Self Diagnostic Result | Displays the diagnosis results judged by BCM. |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. |
| Data Monitor | The BCM input/output signals are displayed. |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. |
| Ecu Identification | The BCM part number is displayed. |
| Configuration | • Read and save the vehicle specification.<br>• Write the vehicle specification when replacing BCM. |

#### SYSTEM APPLICATION
BCM can perform the following functions for each system.
**NOTE:**
It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

| System | Sub system selection item | Diagnosis mode | | |
|---|---|---|---|---|
| | | Work Support | Data Monitor | Active Test |
| Door lock | DOOR LOCK | × | × | × |
| Rear window defogger | REAR DEFOGGER | | × | × |
| Warning chime | BUZZER | | × | × |
| Interior room lamp timer | INT LAMP | × | × | × |
| Exterior lamp | HEAD LAMP | × | × | × |
| Wiper and washer | WIPER | × | × | × |
| Turn signal and hazard warning lamps | FLASHER | × | × | × |
| — | AIR CONDITONER* | | | |
| • Intelligent Key system<br>• Engine start system | INTELLIGENT KEY | × | × | × |
| Combination switch | COMB SW | | × | |
| Body control system | BCM | × | | |
| NVIS - NATS | IMMU | | × | × |
| Interior room lamp battery saver | BATTERY SAVER | × | × | × |
| Back door/Trunk lid open | TRUNK | | × | × |
| Vehicle security system | THEFT ALM | × | × | × |
| RAP system | RETAINED PWR | | × | |
| Signal buffer system | SIGNAL BUFFER | | × | × |
| TPMS | TPMS (AIR PRESSURE MONITOR) | × | × | × |

**NOTE:**
*: This item is displayed, but is not used.

#### FREEZE FRAME DATA (FFD)
The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

| CONSULT screen item | Indication/Unit | Description | |
|---|---|---|---|
| Vehicle Speed | km/h | Vehicle speed of the moment a particular DTC is detected | |
| Odo/Trip Meter | km | Total mileage (Odometer value) of the moment a particular DTC is detected | |
| Vehicle Condition | SLEEP>LOCK | Power supply position status of the moment a particular DTC is detected | While turning BCM status from low power consumption mode to normal mode (Power supply position is “LOCK”*) |
| | SLEEP>OFF | | While turning BCM status from low power consumption mode to normal mode (Power supply position is “OFF”.) |
| | LOCK>ACC | | While turning power supply position from “LOCK”* to “ACC” |
| | ACC>ON | | While turning power supply position from “ACC” to “IGN” |
| | RUN>ACC | | While turning power supply position from “RUN” to “ACC” (Except emergency stop operation) |
| | CRANK>RUN | | While turning power supply position from “CRANKING” to “RUN” (From cranking up the engine to run it) |
| | RUN>URGENT | | While turning power supply position from “RUN“ to “ACC” (Emergency stop operation) |
| | ACC>OFF | | While turning power supply position from “ACC” to “OFF” |
| | OFF>LOCK | | While turning power supply position from “OFF” to “LOCK”* |
| | OFF>ACC | | While turning power supply position from “OFF” to “ACC” |
| | ON>CRANK | | While turning power supply position from “IGN” to “CRANKING” |
| | OFF>SLEEP | | While turning BCM status from normal mode (Power supply position is “OFF”.) to low power consumption mode |
| | LOCK>SLEEP | | While turning BCM status from normal mode (Power supply position is “LOCK”*.) to low power consumption mode |
| | LOCK | | Power supply position is “LOCK”* |
| | OFF | | Power supply position is “OFF” (Ignition switch OFF) |
| | ACC | | Power supply position is “ACC” (Ignition switch ACC) |
| | ON | | Power supply position is “IGN” (Ignition switch ON with engine stopped) |
| | ENGINE RUN | | Power supply position is “RUN” (Ignition switch ON with engine running) |
| | CRANKING | | Power supply position is “CRANKING” (At engine cranking) |
| IGN Counter | 0 - 39 | The number of times that ignition switch is turned ON after DTC is detected<br>• The number is 0 when a malfunction is detected now.<br>• The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON.<br>• The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. | |

**NOTE:**
*: Power supply position shifts to “LOCK” from “OFF”, when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.
- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to “ACC” when the push-button ignition switch (push switch) is pushed at “LOCK”.

# HEADLAMP

## HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000010840542

### WORK SUPPORT

| Service item | Setting item | Setting | |
|---|---|---|---|
| BATTERY SAVER SET | On* | With the exterior lamp battery saver function | |
| | Off | Without the exterior lamp battery saver function | |
| ILL DELAY SET | MODE 1* | 45 sec. | Sets delay timer function timer operation time.<br>(All doors closed) |
| | MODE 2 | Without the function | |
| | MODE 3 | 30 sec. | |
| | MODE 4 | 60 sec. | |
| | MODE 5 | 90 sec. | |
| | MODE 6 | 120 sec. | |
| | MODE 7 | 150 sec. | |
| | MODE 8 | 180 sec. | |
| CUSTOM A/LIGHT SETTING | MODE 1* | Normal | |
| | MODE 2 | More sensitive setting than normal setting (Turns ON earlier than normal operation.) | |
| | MODE 3 | More sensitive setting than MODE 2 (Turns ON earlier than MODE 2.) | |
| | MODE 4 | Less sensitive setting than normal setting (Turns ON later than normal operation.) | |

*: Factory setting

## DATA MONITOR

**NOTE:**
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor item [Unit] | Description |
|---|---|
| PUSH SW [On/Off] | The switch status input from push-button ignition switch |
| ENGINE STATE [Stop/Stall/Crank/Run] | The engine status received from ECM with CAN communication |
| VEH SPEED 1 [km/h] | The value of the vehicle speed received from combination meter with CAN communication |
| KEY SW-SLOT [On/Off] | Key switch status input from key slot |
| TURN SIGNAL R [On/Off] | Each switch status that BCM judges from the combination switch reading function |
| TURN SIGNAL L [On/Off] | |
| TAIL LAMP SW [On/Off] | |
| HI BEAM SW [On/Off] | |
| HEAD LAMP SW1 [On/Off] | |
| HEAD LAMP SW2 [On/Off] | |
| PASSING SW [On/Off] | |
| AUTO LIGHT SW [On/Off] | |
| FR FOG SW [On/Off] | **NOTE:**<br>The item is indicated, but not monitored. |
| RR FOG SW [On/Off] | Each switch status that BCM judges from the combination switch reading function |

| Monitor item [Unit] | Description |
|---|---|
| DOOR SW-DR [On/Off] | The switch status input from driver side door switch |
| DOOR SW-AS [On/Off] | The switch status input from passenger side door switch |
| DOOR SW-RR [On/Off] | **NOTE:** The item is indicated, but not monitored. |
| DOOR SW-RL [On/Off] | |
| DOOR SW-BK [On/Off] | |
| OPTICAL SENSOR [V] | The value of exterior brightness voltage input from the optical sensor |

## ACTIVE TEST

| Test item | Operation | Description |
|---|---|---|
| TAIL LAMP | On | Transmits the position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON. |
| | Off | Stops the position light request signal transmission. |
| HEAD LAMP | Hi | Transmits the high beam request signal with CAN communication to turn the head-lamp (HI). |
| | Low | Transmits the low beam request signal with CAN communication to turn the head-lamp (LO). |
| | Off | Stops the high & low beam request signal transmission. |
| FR FOG LAMP | On | Transmits the daytime running light request signal with CAN communication to turn the daytime running light. |
| | Off | Stops the daytime running light request signal transmission. |
| RR FOG LAMP | On | • Outputs the voltage to turn the rear fog lamp ON.<br>• Transmits the rear fog lamp status signal to the combination meter with CAN communication to turn the rear fog lamp indicator lamp ON. |
| | Off | • Stops the voltage to turn the rear fog lamp OFF.<br>• Stops the rear fog lamp status signal transmission. |
| DAYTIME RUNNING LIGHT | On | **NOTE:** The item is indicated, but cannot be tested. |
| | Off | |
| CORNERING LAMP | RH | **NOTE:** The item is indicated, but cannot be tested. |
| | LH | |
| | Off | |
| ILL DIM SIGNAL | On | **NOTE:** The item is indicated, but cannot be tested. |
| | Off | |

# FLASHER

## FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:0000000010840543

### WORK SUPPORT

| Service item | Setting item | Setting | |
|---|---|---|---|
| HAZARD ANSWER BACK | Lock Only* | With locking only | Sets the hazard warning lamp answer back function when the door is lock/unlock with the request switch or the key fob. |
| | Unlk Only | With unlocking only | |
| | Lock/Unlk | With locking/unlocking | |
| | Off | Without the function | |

*: Factory setting

## DATA MONITOR

**NOTE:**
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor item [Unit] | Description |
|---|---|
| REQ SW-DR [On/Off] | The switch status input from the request switch (driver side) |
| REQ SW-AS [On/Off] | The switch status input from the request switch (passenger side) |
| PUSH SW [On/Off] | The switch status input from the push-button ignition switch |
| TURN SIGNAL R [On/Off] | Each switch condition that BCM judges from the combination switch reading function |
| TURN SIGNAL L [On/Off] | |
| HAZARD SW [On/Off] | The switch status input from the hazard switch |
| RKE-LOCK [On/Off] | Lock signal status received from the remote keyless entry receiver |
| RKE-UNLOCK [On/Off] | Unlock signal status received from the remote keyless entry receiver |
| RKE-PANIC [On/Off] | Panic alarm signal status received from the remote keyless entry receiver |

## ACTIVE TEST

| Test item | Operation | Description |
|---|---|---|
| FLASHER | RH | Outputs the voltage to turn the right side turn signal lamps ON. |
| | LH | Outputs the voltage to turn the left side turn signal lamps ON. |
| | Off | Stops the voltage to turn the turn signal lamps OFF. |

# DIAGNOSIS SYSTEM (IPDM E/R)

## Diagnosis Description

INFOID:0000000011287397

### AUTO ACTIVE TEST

Description

In auto active test mode, the IPDM E/R sends a drive signal to the following systems to check their operation.

- Oil pressure warning lamp
- Front wiper (LO, HI)
- Parking lamps
- License plate lamps
- Side maker lamps
- Tail lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan (cooling fan control module)

Operation Procedure

1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)
   **NOTE:**
   When auto active test is performed with hood opened, sprinkle water on windshield beforehand.
2. Turn the ignition switch OFF.
3. Turn the ignition switch ON, and within 20 seconds, press the front door switch (driver side) 10 times. Then turn the ignition switch OFF.
   **CAUTION:**
   **Close passenger door.**
4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
5. The oil pressure warning lamp starts blinking when the auto active test starts.
6. After a series of the following operations is repeated 3 times, auto active test is completed.

**NOTE:**
When auto active test mode has to be cancelled halfway through test, turn the ignition switch OFF.

**CAUTION:**

- **If auto active test mode cannot be actuated, check door switch system. Refer to DLK-89, "Component Function Check".**
- **Do not start the engine.**

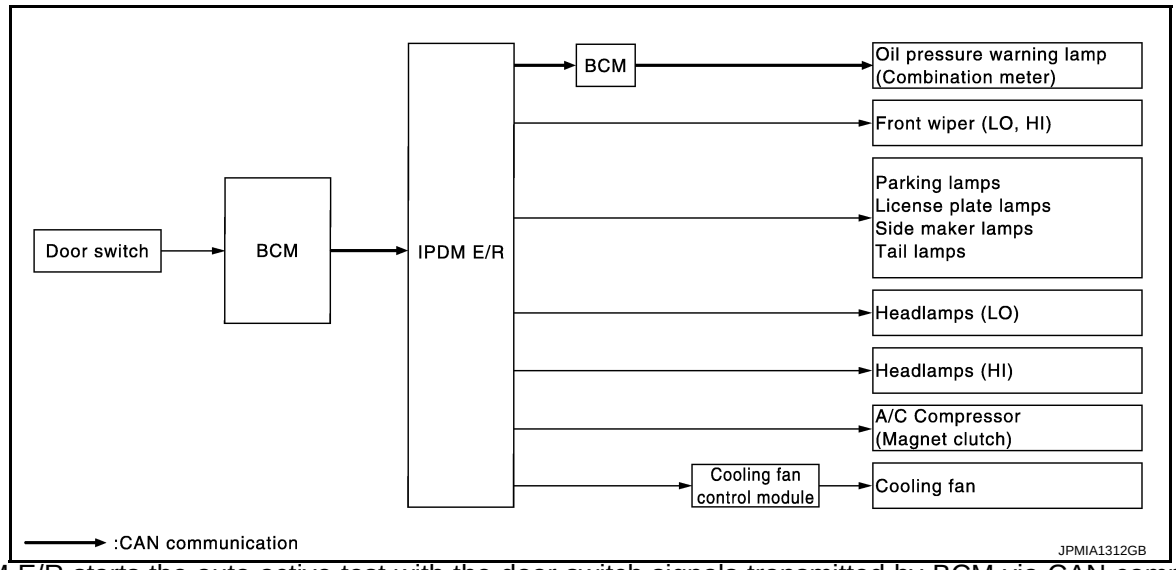
Inspection in Auto Active Test Mode

When auto active test mode is actuated, the following 6 steps are repeated 3 times.

| Operation sequence | Inspection location | Operation |
|---|---|---|
| 1 | Oil pressure warning lamp | Blinks continuously during operation of auto active test |
| 2 | Front wiper | LO for 5 seconds → HI for 5 seconds |
| 3 | • Parking lamps<br>• License plate lamps<br>• Side maker lamps<br>• Tail lamps | 10 seconds |
| 4 | Headlamps | LO for 10 seconds → HI ON ⇔ OFF 5 times |
| 5 | A/C compressor (magnet clutch) | ON ⇔ OFF 5 times |
| 6* | Cooling fan | MID for 5 seconds → HI for 5 seconds |

*: Outputs duty ratio of 50% for 5 seconds → duty ratio of 100% for 5 seconds on the cooling fan control module.

Concept of auto active test




- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

| Symptom | Inspection contents | | Possible cause |
|---|---|---|---|
| Any of the following components do not operate<br>• Parking lamps<br>• License plate lamps<br>• Side maker lamps<br>• Tail lamps<br>• Headlamp (HI, LO)<br>• Front wiper (HI, LO) | Perform auto active test.<br>Does the applicable system operate? | YES | BCM signal input circuit |
| | | NO | • Lamp or motor<br>• Lamp or motor ground circuit<br>• Harness or connector between IPDM E/R and applicable system<br>• IPDM E/R |
| A/C compressor does not operate | Perform auto active test.<br>Does the magnet clutch operate? | YES | • Unified meter and A/C amp. signal input circuit<br>• CAN communication signal between unified meter and A/C amp. and ECM<br>• CAN communication signal between ECM and IPDM E/R |
| | | NO | • Magnet clutch<br>• Harness or connector between IPDM E/R and magnet clutch<br>• IPDM E/R |
| Oil pressure warning lamp does not operate | Perform auto active test.<br>Does the oil pressure warning lamp blink? | YES | • Harness or connector between IPDM E/R and oil pressure switch<br>• Oil pressure switch<br>• IPDM E/R |
| | | NO | • CAN communication signal between IPDM E/R and BCM<br>• CAN communication signal between BCM and unified meter and A/C amp.<br>• Combination meter |

| Symptom | Inspection contents | | Possible cause |
|---|---|---|---|
| Cooling fan does not operate | Perform auto active test.<br>Does the cooling fan operate? | YES | • ECM signal input circuit<br>• CAN communication signal between ECM and IPDM E/R |
| | | NO | • Cooling fan<br>• Harness or connector between cooling fan and cooling fan control module<br>• Cooling fan control module<br>• Harness or connector between IPDM E/R and cooling fan control module<br>• Cooling fan relay<br>• Harness or connector between IPDM E/R and cooling fan relay<br>• IPDM E/R |

## CONSULT Function (IPDM E/R)

INFOID:0000000011287398

### APPLICATION ITEM

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

| Diagnosis mode | Description |
|---|---|
| Ecu Identification | Allows confirmation of IPDM E/R part number. |
| Self Diagnostic Result | Displays the diagnosis results judged by IPDM E/R. |
| Data Monitor | Displays the real-time input/output data from IPDM E/R input/output data. |
| Active Test | IPDM E/R can provide a drive signal to electronic components to check their operations. |
| CAN Diag Support Monitor | The results of transmit/receive diagnosis of CAN communication can be read. |

### SELF DIAGNOSTIC RESULT

Refer to PCS-33, "DTC Index".

### DATA MONITOR

**NOTE:**

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor Item [Unit] | MAIN SIGNALS | Description |
|---|---|---|
| RAD FAN REQ [%] | × | Displays the value of the cooling fan speed signal received from ECM via CAN communication. |
| AC COMP REQ [Off/On] | × | Displays the status of the A/C compressor request signal received from ECM via CAN communication. |
| TAIL&CLR REQ [Off/On] | × | Displays the status of the position light request signal received from BCM via CAN communication. |
| HL LO REQ [Off/On] | × | Displays the status of the low beam request signal received from BCM via CAN communication. |
| HL HI REQ [Off/On] | × | Displays the status of the high beam request signal received from BCM via CAN communication. |
| FR FOG REQ [Off/On] | × | Displays the status of the daytime running light request signal received from BCM via CAN communication. |
| FR WIP REQ [Stop/1LOW/Low/Hi] | × | Displays the status of the front wiper request signal received from BCM via CAN communication. |
| WIP AUTO STOP [STOP P/ACT P] | × | Displays the status of the front wiper stop position signal judged by IPDM E/R. |

| Monitor Item [Unit] | MAIN SIGNALS | Description |
|---|---|---|
| WIP PROT [Off/BLOCK] | × | Displays the status of the front wiper fail-safe operation judged by IPDM E/R. |
| IGN RLY1 -REQ [Off/On] | | Displays the status of the ignition switch ON signal received from BCM via CAN communication. |
| IGN RLY [Off/On] | × | Displays the status of the ignition relay judged by IPDM E/R. |
| PUSH SW [Off/On] | | Displays the status of the push-button ignition switch judged by IPDM E/R. |
| INTER/NP SW [Off/On] | | Displays the status of the clutch interlock switch (M/T models) or shift position (A/T models) judged by IPDM E/R. |
| ST RLY CONT [Off/On] | | Displays the status of the starter relay status signal received from BCM via CAN communication. |
| IHBT RLY -REQ [Off/On] | | Displays the status of the starter control relay signal received from BCM via CAN communication. |
| ST/INHI RLY [Off/ST ON/INHI ON/UNKWN] | | Displays the status of the starter relay and starter control relay judged by IPDM E/R. |
| DETENT SW [Off/On] | | Displays the status of the A/T shift selector (detention switch) judged by IPDM E/R. |
| S/L RLY -REQ [Off/On] | | **NOTE:** The item is indicated, but not monitored. |
| S/L STATE [LOCK/UNLOCK/UNKWN] | | **NOTE:** The item is indicated, but not monitored. |
| DTRL REQ [Off/On] | | **NOTE:** The item is indicated, but not monitored. |
| OIL P SW [Open/Close] | | Displays the status of the oil pressure switch judged by IPDM E/R. |
| HOOD SW [Off/On] | | Displays the status of the hood switch judged by IPDM E/R. |
| HL WASHER REQ [Off/On] | | **NOTE:** The item is indicated, but not monitored. |
| THFT HRN REQ [Off/On] | | Displays the status of the theft warning horn request signal received from BCM via CAN communication. |
| HORN CHIRP [Off/On] | | Displays the status of the horn reminder signal received from BCM via CAN communication. |
| CRNRNG LMP REQ [Off/On] | | **NOTE:** The item is indicated, but not monitored. |

## ACTIVE TEST

| Test item | Operation | Description |
|---|---|---|
| CORNERING LAMP | Off | **NOTE:** The item is indicated, but cannot be tested. |
| | LH | |
| | RH | |
| HORN | On | Operates horn relay 1 and horn relay 2 for 20 ms. |
| FRONT WIPER | Off | OFF |
| | Lo | Operates the front wiper relay. |
| | Hi | Operates the front wiper relay and front wiper high relay. |

| Test item | Operation | Description |
|---|---|---|
| MOTOR FAN | 1 | OFF |
| | 2 | Outputs 50% pulse duty signal (PWM signal) to the cooling fan control module. |
| | 3 | Outputs 80% pulse duty signal (PWM signal) to the cooling fan control module. |
| | 4 | Outputs 100% pulse duty signal (PWM signal) to the cooling fan control module. |
| HEAD LAMP WASHER | On | **NOTE:**<br>The item is indicated, but cannot be tested. |
| EXTERNAL LAMPS | Off | OFF |
| | TAIL | Operates the tail lamp relay and daytime running light relay.<br>**NOTE:**<br>Daytime running light relay is with daytime running light system only. |
| | Lo | Operates the headlamp low relay. |
| | Hi | Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals. |
| | Fog | **NOTE:**<br>The item is indicated, but cannot be tested. |

# ECU DIAGNOSIS INFORMATION

## BCM, IPDM E/R

### List of ECU Reference

INFOID:0000000010840546

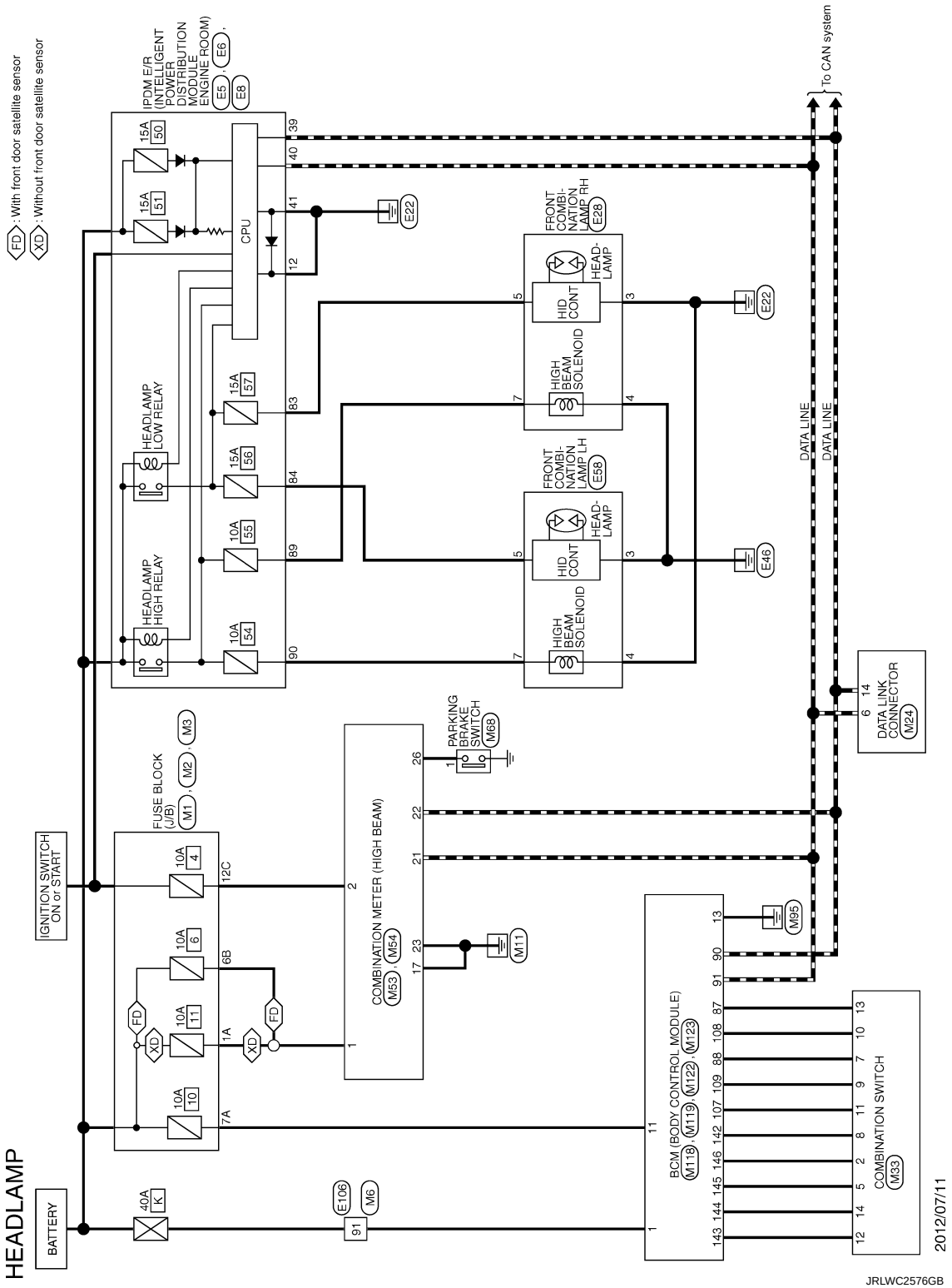
| ECU | Reference |
|---|---|
| BCM | BCS-58, "Reference Value" |
| | BCS-97, "Fail-safe" |
| | BCS-98, "DTC Inspection Priority Chart" |
| | BCS-99, "DTC Index" |
| IPDM E/R | PCS-21, "Reference Value" |
| | PCS-31, "Fail-safe" |
| | PCS-33, "DTC Index" |

# WIRING DIAGRAM

## HEADLAMP SYSTEM

### Wiring Diagram

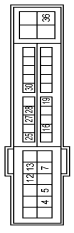
INFOID:0000000010840547



HEADLAMP

| Connector No. | E5 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH20FW-CS12-M4-1V |

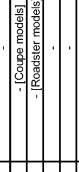
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 4 | V | - |
| 5 | L | - |
| 7 | R | - [Coupe models] |
| 7 | V | - [Roadster models] |
| 12 | B/W | - |
| 13 | Y | - |
| 16 | LG | - |
| 19 | W | - |
| 25 | G | - |
| 27 | Y | - |
| 28 | L | - |
| 30 | GR | - |
| 36 | G | - |

| Connector No. | E6 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH08FW-NH |

H.S.

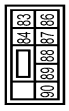


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 39 | P | - |
| 40 | L | - |
| 41 | B/W | - |
| 42 | Y | - |
| 43 | SB | - |
| 44 | W | - |

| 45 | G | - |
|---|---|---|
| 46 | V | - |

| Connector No. | E8 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FW-CS |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 83 | R | - |
| 84 | P | - |
| 86 | BG | - |
| 87 | R | - |
| 88 | G | - |
| 89 | BR | - |
| 90 | LG | - |

| Connector No. | E28 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH |
| Connector Type | RS06FGY-PR |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | B | - |
| 4 | B/W | - |
| 5 | R | - |
| 6 | LG | - |
| 7 | BR | - |
| 8 | P | - |

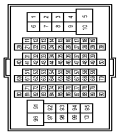
| Connector No. | E58 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH |
| Connector Type | RS06FGY-PR |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | B | - |
| 4 | B/W | - |
| 5 | P | - |
| 6 | GR | - |
| 7 | LG | - |
| 8 | BG | - |

| Connector No. | E106 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | V | - |
| 12 | R | - |
| 13 | L | - |
| 14 | GR | - |
| 15 | P | - |
| 16 | W | - |
| 17 | SB | - |

| 20 | LG | - |
|---|---|---|
| 21 | BR | - [Coupe models] |
| 21 | G | - [Roadster models] |
| 31 | L | - |
| 32 | Y | - |
| 36 | V | - |
| 37 | Y | - |
| 38 | R | - |
| 39 | B | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | SB | - |
| 43 | G | - |
| 44 | GR | - [Except for roadster models with M/T] |
| 44 | R | - [Roadster models with M/T] |
| 45 | BG | - |
| 46 | W | - |
| 47 | P | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | P | - |
| 80 | W | - |
| 81 | P | - |
| 82 | G | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BG | - |
| 86 | LG | - |
| 87 | R | - |
| 89 | P | - |
| 91 | W | - |
| 92 | L | - |
| 93 | G | - |
| 94 | Y | - |
| 96 | Y | - |
| 97 | BR | - |
| 98 | GR | - |
| 99 | LG | - |
| 100 | BG | - |

JRLWD7855GB

HEADLAMP

| Connector No. | M1 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1A | V | - |
| 2A | G | - |
| 3A | L | - |
| 4A | P | - |
| 5A | L | - |
| 6A | Y | - |
| 7A | BR | - |
| 8A | L | - |

| Connector No. | M2 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3B | P | - |
| 4B | G | - |
| 5B | O | - |
| 6B | Y | - |
| 8B | R | - |
| 9B | SB | - |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 10C | L | - |
| 11C | LG | - |
| 12C | O | - |
| 6C | R | - |
| 7C | B | - |
| 9C | O | - |

| Connector No. | M6 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | GR | - |
| 12 | R | - |
| 13 | L | - |
| 14 | G | - |
| 15 | P | - |
| 16 | W | - |
| 17 | BR | - |
| 20 | GR | - |

| 21 | R | - |
|---|---|---|
| 31 | BR | - |
| 32 | V | - |
| 36 | SB | - |
| 37 | Y | - |
| 38 | LG | - |
| 39 | SB | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | R | - |
| 43 | G | - |
| 44 | G | - [With A/T] |
| 44 | R | - [With M/T] |
| 45 | O | - |
| 46 | G | - |
| 47 | BR | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | R | - |
| 80 | LG | - |
| 81 | GR | - |
| 82 | V | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BR | - |
| 86 | Y | - |
| 87 | G | - |
| 89 | P | - |
| 91 | W | - |
| 92 | P | - |
| 93 | P | - |
| 94 | Y | - |
| 96 | P | - |
| 97 | GR | - |
| 98 | O | - |
| 99 | W | - |
| 100 | R | - |

| Connector No. | M24 |
|---|---|
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | LG | - [Coupe models] |
| 3 | Y | - [Roadster models] |
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | Y | - |
| 8 | G | - |
| 11 | LG | - [Roadster models] |
| 11 | Y | - [Coupe models] |
| 14 | P | - |
| 16 | Y | - |

| Connector No. | M33 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | P | FR WASHER (-) |
| 2 | SB | OUTPUT 4 |
| 5 | L | OUTPUT 3 |
| 6 | B | GROUND |
| 7 | V | INPUT 3 |
| 8 | O | OUTPUT 5 |
| 9 | Y | INPUT 2 |
| 10 | R | INPUT 4 |
| 11 | LG | INPUT 1 |

JRLWD7856GB

HEADLAMP

| | | |
|---|---|---|
| 12 | P | OUTPUT 1 |
| 13 | BR | INPUT 5 |
| 14 | G | OUTPUT 2 |

| | |
|---|---|
| Connector No. | M53 |
| Connector Name | COMBINATION METER |
| Connector Type | TH24FW-NH |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | V | BATTERY POWER SUPPLY |
| 2 | O | IGNITION SIGNAL |
| 3 | L | VEHICLE SPEED SIGNAL (2-PULSE) |
| 4 | V | VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico] |
| 4 | Y | VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico] |
| 5 | B | ILLUMINATION CONTROL SIGNAL |
| 6 | R | ROOF STATUS SIGNAL |
| 9 | BR | COMMUNICATION SIGNAL (METER->TRIPLE METER) |
| 10 | L | COMMUNICATION SIGNAL (TRIPLE METER->METER) |
| 12 | G | S-MODE SWITCH SIGNAL |
| 15 | L | ACC POWER SUPPLY |
| 16 | R | AIR BAG SIGNAL |
| 17 | B | GROUND |
| 18 | V | AMBIENT SENSOR SIGNAL |
| 19 | G | A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL |
| 20 | GR | AMBIENT SENSOR GROUND |
| 21 | L | CAN-H |
| 22 | P | CAN-L |
| 23 | B | GROUND |
| 24 | Y | FUEL LEVEL SENSOR GROUND |

| | |
|---|---|
| Connector No. | M54 |
| Connector Name | COMBINATION METER |
| Connector Type | TH16FW-NH |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 25 | W | ALTERNATOR SIGNAL |
| 26 | O | PARKING BRAKE SWITCH SIGNAL |
| 27 | LG | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 28 | Y | SECURITY SIGNAL |
| 29 | GR | WASHER LEVEL SWITCH SIGNAL |
| 32 | G | PADDLE SHIFTER DOWN SIGNAL |
| 33 | O | PADDLE SHIFTER UP SIGNAL |
| 34 | BR | FUEL LEVEL SENSOR SIGNAL |
| 35 | L | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) |
| 36 | L | PASSENGER SEAT BELT WARNING SIGNAL [For Mexico] |
| 36 | P | PASSENGER SEAT BELT WARNING SIGNAL [Except for Mexico] |
| 37 | G | NON-MANUAL MODE SIGNAL |
| 38 | V | MANUAL MODE SHIFT DOWN SIGNAL |
| 39 | L | MANUAL MODE SHIFT UP SIGNAL |
| 40 | W | MANUAL MODE SIGNAL |

| | |
|---|---|
| Connector No. | M68 |
| Connector Name | PARKING BRAKE SWITCH |
| Connector Type | P01FB-A |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | O | . |

| | |
|---|---|
| Connector No. | M118 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | M03FB-LC |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | BAT (F/L) |
| 2 | W | POWER WINDOW POWER SUPPLY (BAT) |
| 3 | Y | POWER WINDOW POWER SUPPLY (IGN) |

| | |
|---|---|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS16FW-CS |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 4 | R | INTERIOR ROOM LAMP POWER SUPPLY |
| 5 | G | PASSENGER DOOR UNLOCK OUTPUT |
| 8 | V | ALL DOOR, FUEL LID LOCK OUTPUT |
| 9 | G | DRIVER DOOR, FUEL LID UNLOCK OUTPUT |
| 11 | BR | BAT (FUSE) |
| 13 | B | GROUND |
| 14 | R | PUSH-BUTTON IGNITION SW ILL GND |
| 15 | Y | ACC IND |
| 17 | W | TURN SIGNAL RH (FRONT, SIDE) |
| 18 | O | TURN SIGNAL LH (FRONT, SIDE) |
| 19 | P | ROOM LAMP TIMER CONTROL |

| | |
|---|---|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 72 | L | ROOM ANT 2- |
| 73 | P | ROOM ANT 2+ |
| 74 | SB | PASSENGER DOOR ANT- |
| 75 | BR | PASSENGER DOOR ANT+ |
| 76 | V | DRIVER DOOR ANT- |
| 77 | LG | DRIVER DOOR ANT+ |
| 78 | L | ROOM ANT 1- |
| 79 | R | ROOM ANT 1+ |
| 80 | GR | NATS ANT AMP. |
| 81 | W | NATS ANT AMP. |
| 82 | R | IGN RELAY (F/B) CONT |
| 83 | GR | KYLS ENT RECEIVER (FRONT) COMM |
| 87 | BR | COMBI SW INPUT 5 |
| 88 | V | COMBI SW INPUT 3 |
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL |
| 93 | V | ON IND |
| 95 | O | ACC RELAY CONT |
| 96 | Y | A/T SHIFT SELECTOR POWER SUPPLY |
| 99 | R | SHIFT P/CLUTCH PEDAL POS SW |
| 100 | GR | PASSENGER DOOR REQUEST SW |
| 101 | Y | DRIVER DOOR REQUEST SW |
| 102 | O | BLOWER FAN MOTOR RELAY CONT |
| 103 | LG | KYLS ENT RECEIVER (FRONT) PWR SUPPLY |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 4 |
| 109 | Y | COMBI SW INPUT 2 |
| 110 | P | HAZARD SW |

JRLWD7857GB

HEADLAMP

| | |
|---|---|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |

H.S.

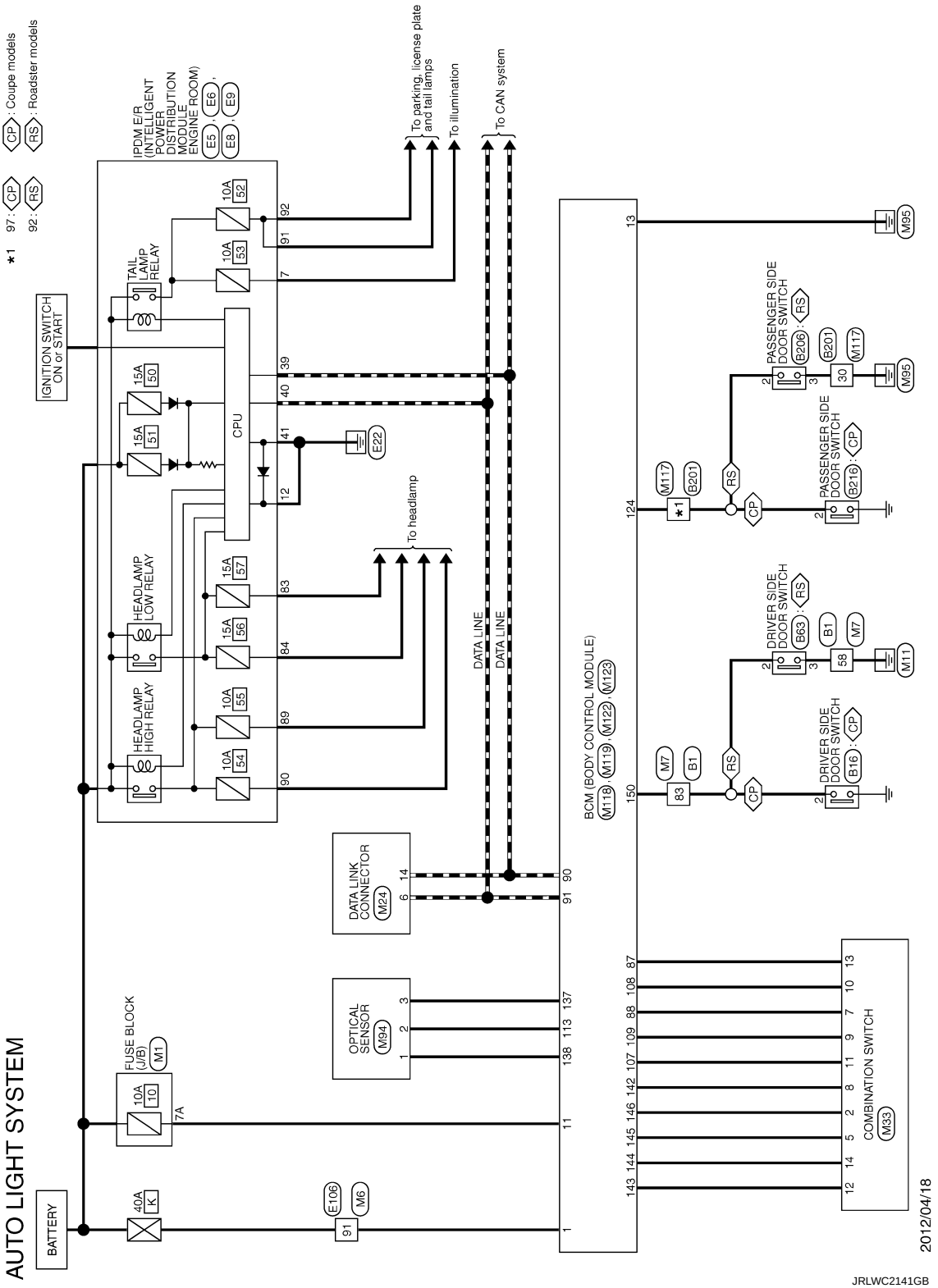
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 113 | O | OPTICAL SENSOR |
| 114 | R | CLUTCH INTERLOCK SW |
| 115 | O | - |
| 116 | SB | STOP LAMP SW 1 |
| 118 | P | STOP LAMP SW 2 |
| 119 | SB | DR DOOR UNLOCK SENSOR |
| 121 | R | KEY SLOT SW |
| 123 | W | IGN F/B |
| 124 | LG | PASSENGER DOOR SW |
| 129 | O | TRUNK LID OPENER CANCEL SW |
| 130 | L | REAR DEFOGGER SW |
| 132 | V | P/W SW & SOFT TOP CU COMM [Roadster models] |
| 132 | Y | POWER WINDOW SW COMM [Coupe models] |
| 133 | G | PUSH BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |
| 137 | P | RECEIVER &SENSOR GND |
| 138 | V | RECEIVER & SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESS RECEIV COMM |
| 140 | G | P/N POSITION |
| 141 | Y | SECURITY INDICATOR |
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 150 | GR | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

JRLWD7858GB

# AUTO LIGHT SYSTEM

## Wiring Diagram

INFOID:0000000010840548



AUTO LIGHT SYSTEM

| Connector No. | B1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | BG | - |
| 3 | Y | - |
| 4 | W | - |
| 6 | V | - |
| 7 | LG | - |
| 8 | GR | - |
| 9 | SB | - |
| 11 | Y | - |
| 12 | W | - |
| 13 | BR | - |
| 14 | LG | - |
| 15 | B | - |
| 16 | V | - |
| 17 | R | - |
| 18 | B | - |
| 20 | SB | - |
| 21 | G | - |
| 22 | GR | - |
| 23 | V | - |
| 24 | BG | - |
| 25 | L | - |
| 26 | P | - |
| 27 | W | - |
| 28 | SHIELD | - |
| 31 | W | - |
| 32 | B | - |
| 33 | P | - [Coupe models] |
| 33 | W | - [Roadster models] |
| 34 | R | - |
| 35 | B | - [Roadster models] |
| 35 | W | - [Coupe models] |
| 36 | B | - |
| 40 | Y | - |
| 41 | L | - |
| 42 | GR | - |
| 43 | BR | - |
| 44 | R | - |
| 45 | BG | - |
| 46 | SB | - [Roadster models] |
| 46 | SHIELD | - [Coupe models] |
| 47 | V | - |
| 48 | SHIELD | - |
| 51 | W | - |
| 52 | R | - |
| 57 | SHIELD | - |
| 58 | B | - |
| 60 | V | - |
| 61 | SB | - |
| 62 | SHIELD | - |
| 63 | BR | - |
| 64 | Y | - |
| 65 | SHIELD | - |
| 66 | P | - |
| 67 | L | - |
| 68 | SHIELD | - |
| 69 | R | - |
| 70 | G | - |
| 71 | V | - |
| 72 | P | - |
| 73 | BR | - |
| 74 | GR | - |
| 75 | BG | - |
| 80 | Y | - |
| 81 | R | - |
| 82 | B | - |
| 83 | GR | - |
| 84 | G | - [Coupe models] |
| 84 | L | - [Roadster models] |
| 85 | LG | - |
| 86 | V | - |
| 87 | BR | - |
| 88 | GR | - |
| 93 | Y | - |
| 94 | G | - [Roadster models] |
| 94 | L | - [Coupe models] |
| 95 | GR | - [Coupe models] |
| 95 | LG | - [Roadster models] |
| 96 | L | - |
| 97 | Y | - |
| 98 | W | - [Coupe models] |
| 98 | Y/B | - [Roadster models] |
| 99 | LG | - |
| 100 | B | - |

| Connector No. | B16 |
|---|---|
| Connector Name | DRIVER SIDE DOOR SWITCH |
| Connector Type | A03FW |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 2 | GR | - |

| Connector No. | B63 |
|---|---|
| Connector Name | DRIVER SIDE DOOR SWITCH |
| Connector Type | A03FW |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 2 | GR | - |
| 3 | B | - |

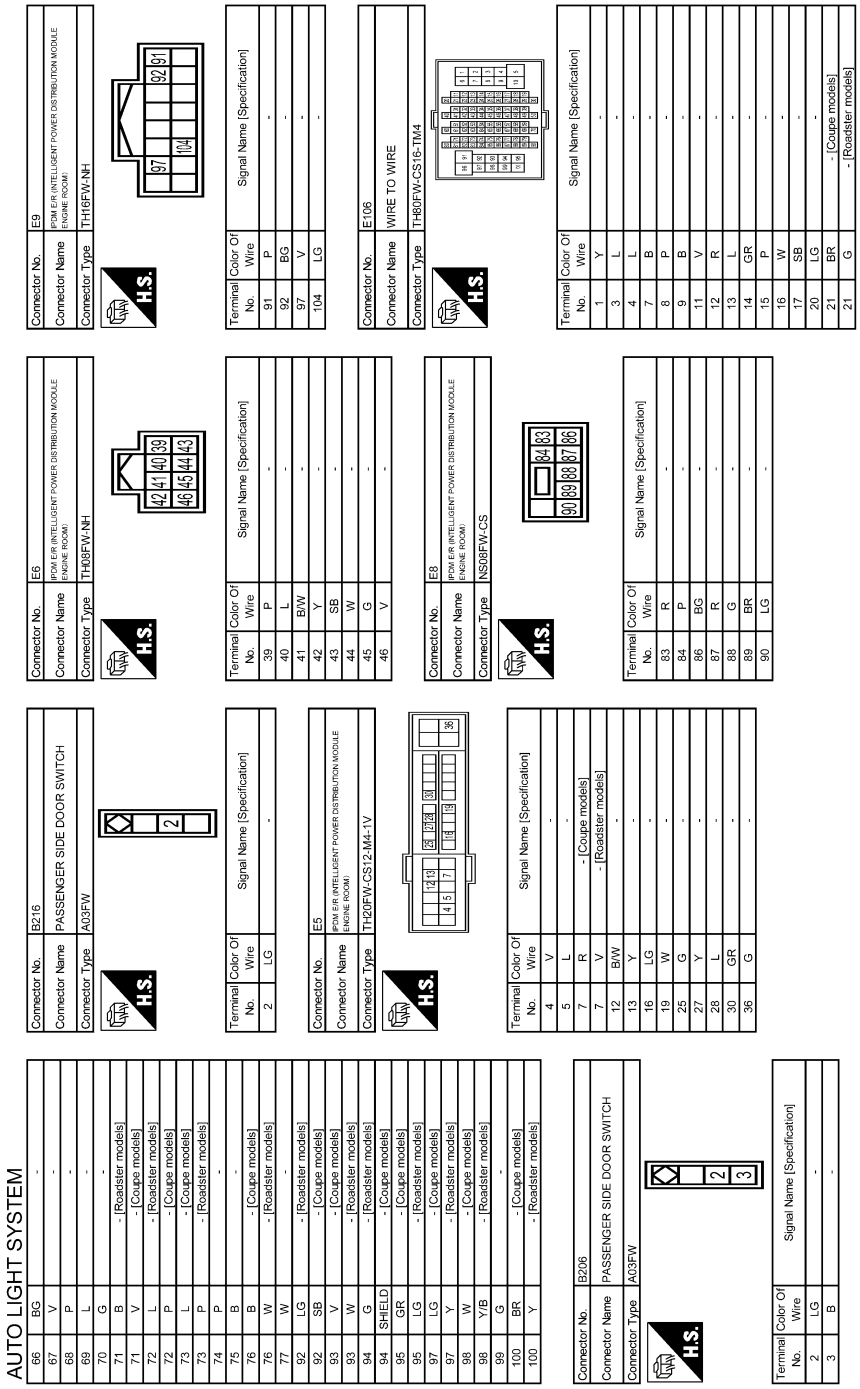
| Connector No. | B201 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 2 | BR | - [Coupe models] |
| 2 | R | - [Roadster models] |
| 3 | B | - [Roadster models] |
| 3 | Y | - [Coupe models] |
| 4 | G | - |
| 7 | R | - [Coupe models] |
| 7 | Y | - [Roadster models] |
| 8 | LG | - |
| 9 | Y | - |
| 11 | R | - |
| 20 | G | - |
| 21 | R | - |
| 30 | B | - |
| 40 | W | - |
| 41 | V | - |
| 42 | G | - |
| 43 | L | - |
| 44 | SB | - |
| 51 | P | - |
| 52 | L | - |
| 53 | SHIELD | - |
| 54 | BR | - |
| 55 | Y | - |
| 56 | SHIELD | - |
| 57 | G | - [Coupe models] |
| 57 | P | - [Roadster models] |
| 58 | L | - [Roadster models] |
| 58 | R | - [Coupe models] |
| 59 | B | - |
| 60 | W | - |
| 61 | GR | - |
| 62 | B | - |
| 63 | Y | - |
| 64 | V | - |
| 65 | SB | - |

JRLWD7865GB


AUTO LIGHT SYSTEM
Connector No. B216
Connector Name PASSENGER SIDE DOOR SWITCH
Connector Type A03FW
Connector No. E6
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type TH08FW-NH
Connector No. E9
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type TH16FW-NH
Connector No. E5
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type TH20FW-CS12-M4-1V
Connector No. E8
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type NS08FW-CS
Connector No. E106
Connector Name WIRE TO WIRE
Connector Type TH80FW-CS16-TM4
Connector No. B206
Connector Name PASSENGER SIDE DOOR SWITCH
Connector Type A03FW
H.S.
JRLWD7866GB

AUTO LIGHT SYSTEM

| | | |
|---|---|---|
| 31 | L | - |
| 32 | Y | - |
| 36 | V | - |
| 37 | Y | - |
| 38 | R | - |
| 39 | B | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | SB | - |
| 43 | G | - |
| 44 | GR | - [Except for roadster models with M/T] |
| 44 | R | - [Roadster models with M/T] |
| 45 | BG | - |
| 46 | W | - |
| 47 | P | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | P | - |
| 80 | W | - |
| 81 | P | - |
| 82 | G | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BG | - |
| 86 | LG | - |
| 87 | R | - |
| 89 | P | - |
| 91 | W | - |
| 92 | L | - |
| 93 | G | - |
| 94 | Y | - |
| 96 | Y | - |
| 97 | BR | - |
| 98 | GR | - |
| 99 | LG | - |
| 100 | BG | - |

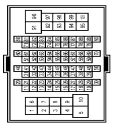
| | |
|---|---|
| Connector No. | M1 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |

H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1A | V | - |
| 2A | G | - |
| 3A | L | - |
| 4A | P | - |
| 5A | L | - |
| 6A | Y | - |
| 7A | BR | - |
| 8A | L | - |

| | |
|---|---|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | GR | - |
| 12 | R | - |
| 13 | L | - |
| 14 | G | - |
| 15 | P | - |
| 16 | W | - |

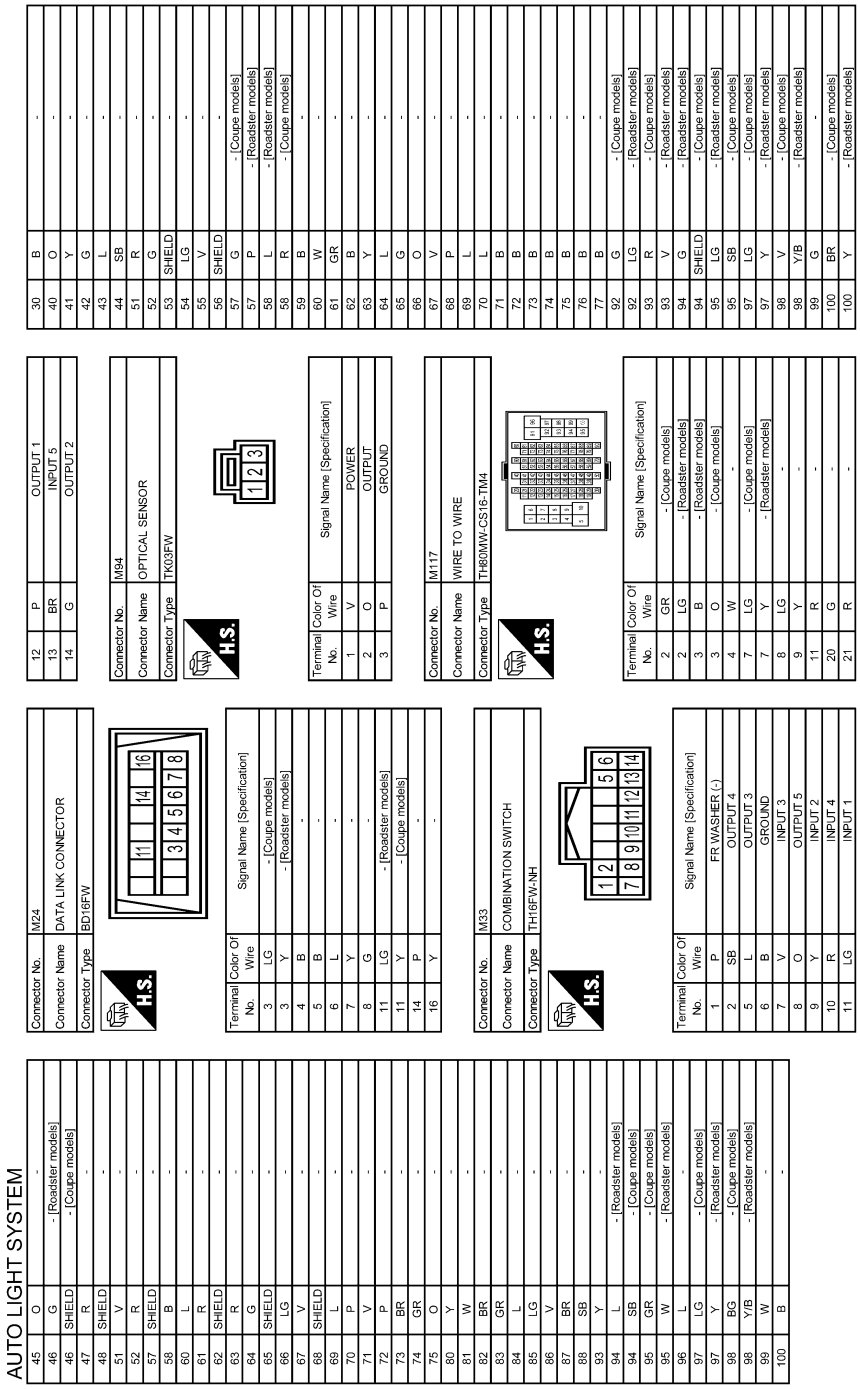
| | | |
|---|---|---|
| 17 | BR | - |
| 20 | GR | - |
| 21 | R | - |
| 31 | BR | - |
| 32 | V | - |
| 36 | SB | - |
| 37 | Y | - |
| 38 | LG | - |
| 39 | SB | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | R | - |
| 43 | G | - |
| 44 | G | - [With A/T] |
| 44 | R | - [With M/T] |
| 45 | O | - |
| 46 | G | - |
| 47 | BR | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | R | - |
| 80 | LG | - |
| 81 | GR | - |
| 82 | V | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BR | - |
| 86 | Y | - |
| 87 | G | - |
| 89 | P | - |
| 91 | W | - |
| 92 | P | - |
| 93 | P | - |
| 94 | Y | - |
| 96 | P | - |
| 97 | GR | - |
| 98 | O | - |
| 99 | W | - |
| 100 | R | - |

| | |
|---|---|
| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | BR | - |
| 2 | O | - |
| 3 | LG | - |
| 4 | O | - |
| 6 | V | - |
| 7 | LG | - |
| 8 | SB | - |
| 9 | GR | - |
| 11 | Y | - |
| 12 | V | - |
| 13 | BR | - |
| 14 | V | - |
| 15 | B | - |
| 16 | V | - |
| 17 | R | - |
| 18 | L | - |
| 20 | SB | - |
| 21 | G | - |
| 22 | GR | - |
| 23 | V | - |
| 24 | R | - |
| 25 | L | - |
| 26 | P | - |
| 27 | B | - |
| 28 | SHIELD | - |
| 31 | W | - |
| 32 | B | - |
| 33 | W | - |
| 34 | R | - |
| 35 | B | - |
| 36 | L | - |
| 40 | L | - |
| 41 | R | - |
| 42 | GR | - |
| 43 | R | - |
| 44 | R | - |

JRLWD7867GB




JRLWD7868GB

AUTO LIGHT SYSTEM

| Connector No. | M118 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | M03FB-LC |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | BAT (F/L) |
| 2 | W | POWER WINDOW POWER SUPPLY (BAT) |
| 3 | Y | POWER WINDOW POWER SUPPLY (IGN) |

| Connector No. | M119 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS16FW-CS |

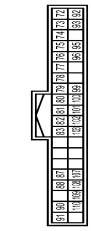
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 4 | R | INTERIOR ROOM LAMP POWER SUPPLY |
| 5 | G | PASSENGER DOOR UNLOCK OUTPUT |
| 8 | V | ALL DOOR, FUEL LID LOCK OUTPUT |
| 9 | G | DRIVER DOOR, FUEL LID UNLOCK OUTPUT |
| 11 | BR | BAT (FUSE) |
| 13 | B | GROUND |
| 14 | R | PUSH-BUTTON IGNITION SW ILL GND |
| 15 | Y | ACC IND |
| 17 | W | TURN SIGNAL RH (FRONT, SIDE) |
| 18 | O | TURN SIGNAL LH (FRONT, SIDE) |
| 19 | P | ROOM LAMP TIMER CONTROL |

| Connector No. | M122 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 72 | L | ROOM ANT 2- |
| 73 | P | ROOM ANT 2+ |
| 74 | SB | PASSENGER DOOR ANT- |
| 75 | BR | PASSENGER DOOR ANT+ |
| 76 | V | DRIVER DOOR ANT- |
| 77 | LG | DRIVER DOOR ANT+ |
| 78 | L | ROOM ANT 1- |
| 79 | R | ROOM ANT 1+ |
| 80 | GR | NATS ANT AMP. |
| 81 | W | NATS ANT AMP. |
| 82 | R | IGN RELAY (F/B) CONT |
| 83 | GR | KYLS ENT RECEIVER (FRONT) COMM |
| 87 | BR | COMBI SW INPUT 5 |
| 88 | V | COMBI SW INPUT 3 |
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL |
| 93 | V | ON IND |
| 95 | O | ACC RELAY CONT |
| 96 | Y | A/T SHIFT SELECTOR POWER SUPPLY |
| 99 | R | SHIFT P/CLUTCH PEDAL POS SW |
| 100 | GR | PASSENGER DOOR REQUEST SW |
| 101 | Y | DRIVER DOOR REQUEST SW |
| 102 | O | BLOWER FAN MOTOR RELAY CONT |
| 103 | LG | KYLS ENT RECEIVER (FRONT) PWR SUPPLY |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 4 |
| 109 | Y | COMBI SW INPUT 2 |
| 110 | P | HAZARD SW |

| Connector No. | M123 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |

H.S.

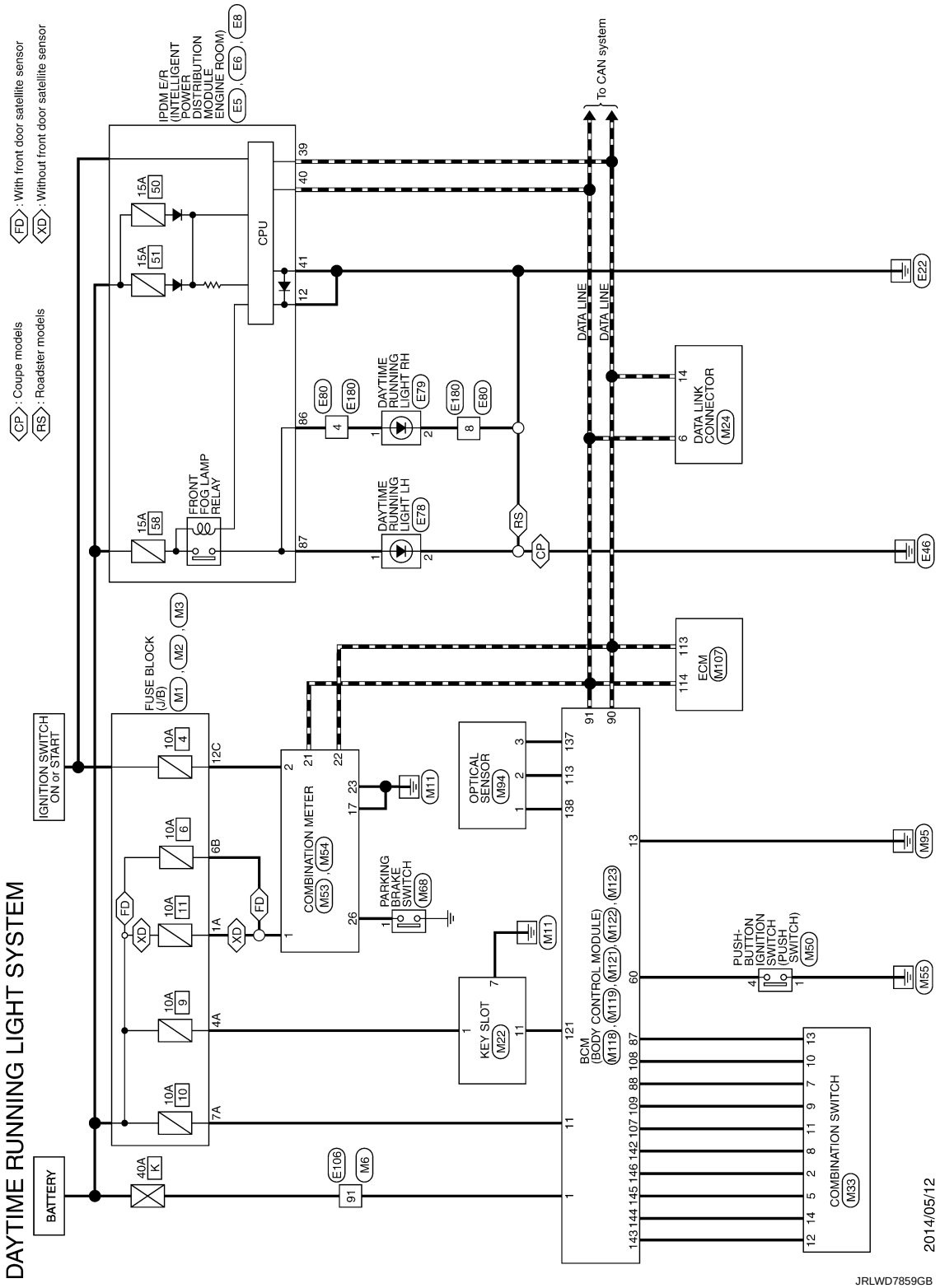
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 113 | O | OPTICAL SENSOR |
| 114 | R | CLUTCH INTERLOCK SW |
| 115 | O | - |
| 116 | SB | STOP LAMP SW 1 |
| 118 | P | STOP LAMP SW 2 |
| 119 | SB | DR DOOR UNLOCK SENSOR |
| 121 | R | KEY SLOT SW |
| 123 | W | IGN F/B |
| 124 | LG | PASSENGER DOOR SW |
| 129 | O | TRUNK LID OPENER CANCEL SW |
| 130 | L | REAR DEFOGGER SW |
| 132 | V | P/W SW & SOFT TOP CLU COMM [Roadster models] |
| 132 | Y | POWER WINDOW SW COMM [Coupe models] |
| 133 | G | PUSH BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |
| 137 | P | RECEIVER &SENSOR GND |
| 138 | V | RECEIVER & SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESS RECEIV COMM |
| 140 | G | P/N POSITION |
| 141 | Y | SECURITY INDICATOR |
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 150 | GR | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

JRLWD7869GB

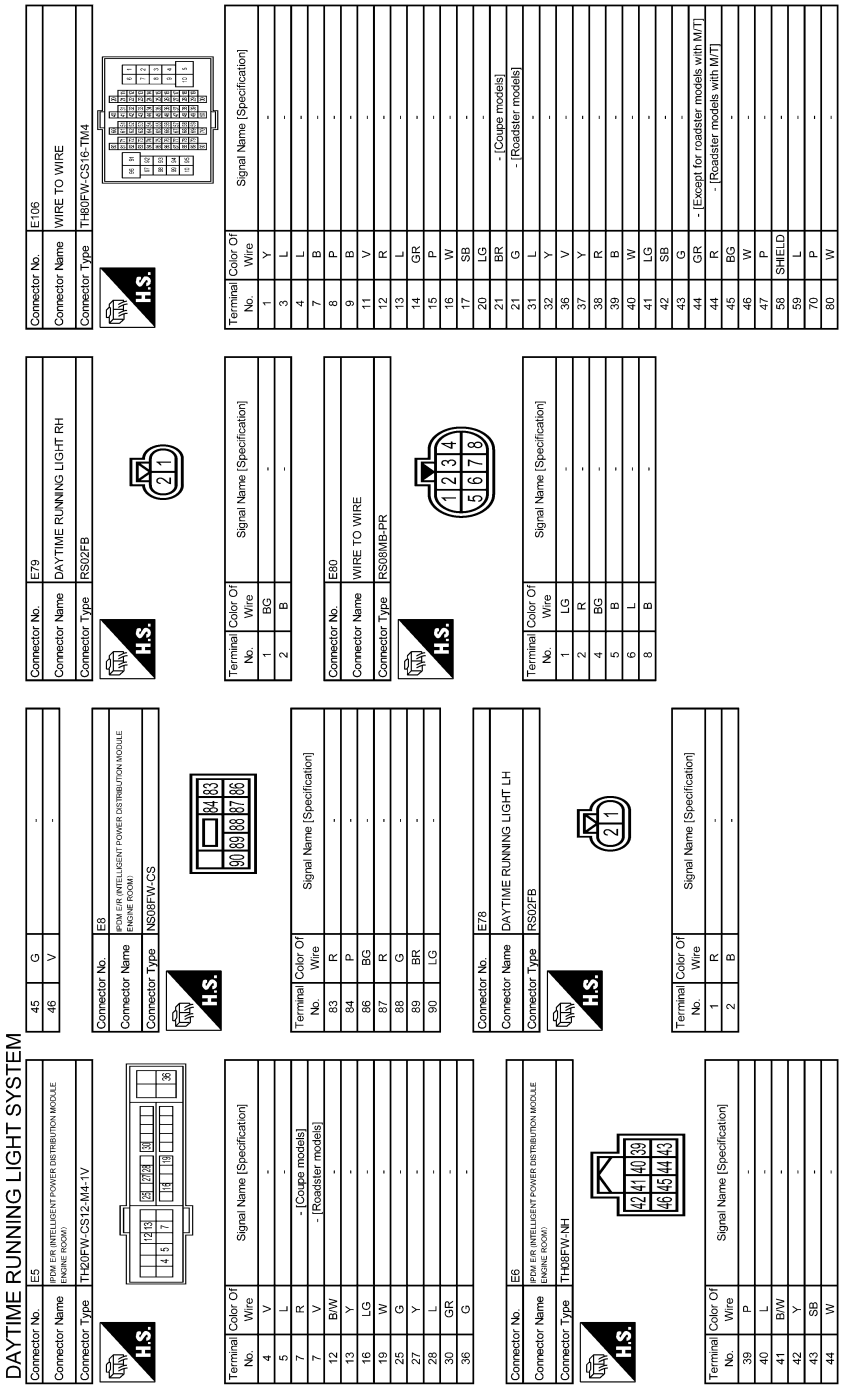
# DAYTIME RUNNING LIGHT SYSTEM

## Wiring Diagram

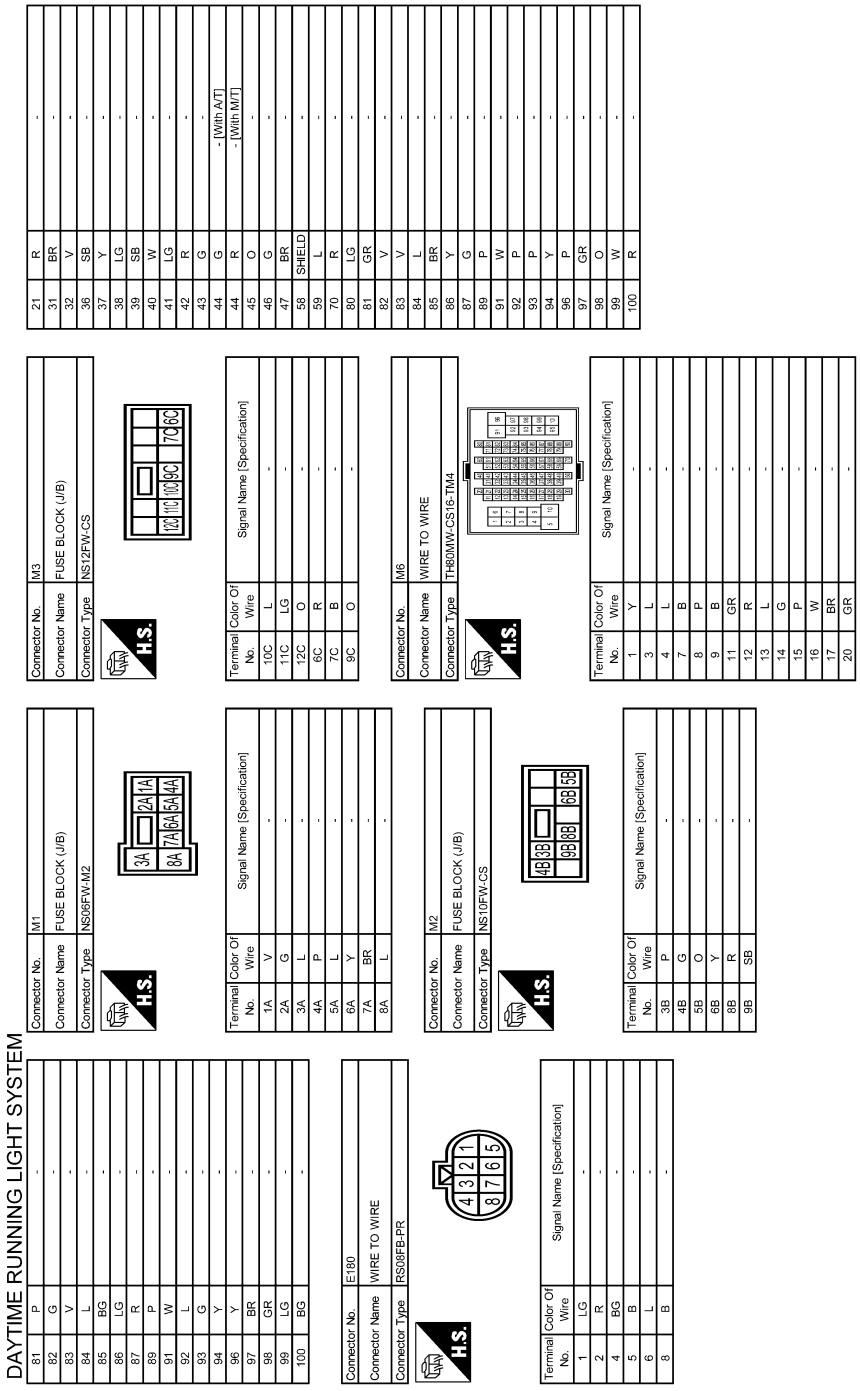
INFOID:0000000010840549



DAYTIME RUNNING LIGHT SYSTEM




JRLWD7860GB




JRLWD7861GB

DAYTIME RUNNING LIGHT SYSTEM

| Connector No. | M22 |
|---|---|
| Connector Name | KEY SLOT |
| Connector Type | TH12FW-NH |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| 7 | | | | 11 | |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | P | BAT |
| 2 | GR | CLOCK |
| 3 | W | DATA |
| 5 | Y | ILL BAT |
| 6 | LG | ILL |
| 7 | B | GROUND |
| 11 | R | KEY SWITCH SIGNAL |

| Connector No. | M24 |
|---|---|
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |

H.S.

| 11 | | | 14 | | 16 |
|---|---|---|---|---|---|
| | 3 | 4 | 5 | 6 | 7 | 8 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | LG | - [Coupe models] |
| 3 | Y | - [Roadster models] |
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | Y | - |
| 8 | G | - |
| 11 | LG | - [Roadster models] |
| 11 | Y | - [Coupe models] |
| 14 | P | - |
| 16 | Y | - |

| Connector No. | M33 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |

H.S.

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

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | P | FR WASHER (-) |
| 2 | SB | OUTPUT 4 |
| 5 | L | OUTPUT 3 |
| 6 | B | GROUND |
| 7 | V | INPUT 3 |
| 8 | O | OUTPUT 5 |
| 9 | Y | INPUT 2 |
| 10 | R | INPUT 4 |
| 11 | LG | INPUT 1 |
| 12 | P | OUTPUT 1 |
| 13 | BR | INPUT 5 |
| 14 | G | OUTPUT 2 |

| Connector No. | M50 |
|---|---|
| Connector Name | PUSH-BUTTON IGNITION SWITCH |
| Connector Type | TK08FBR |

H.S.

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

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | B | - |
| 2 | R | - |
| 3 | G | - |
| 4 | BR | - |
| 5 | GR | - |
| 6 | Y | - |
| 7 | V | - |
| 8 | P | - |

| Connector No. | M53 |
|---|---|
| Connector Name | COMBINATION METER |
| Connector Type | TH24FW-NH |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | V | BATTERY POWER SUPPLY |
| 2 | O | IGNITION SIGNAL |
| 3 | L | VEHICLE SPEED SIGNAL (2-PULSE) |
| 4 | V | VEHICLE SPEED SIGNAL (8-PULSE) [For Mexico] |
| 4 | Y | VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico] |
| 5 | B | ILLUMINATION CONTROL SIGNAL |
| 6 | R | ROOF STATUS SIGNAL |
| 9 | BR | COMMUNICATION SIGNAL (METER->TRIPLE METER) |
| 10 | L | COMMUNICATION SIGNAL (TRIPLE METER->METER) |
| 12 | G | S-MODE SWITCH SIGNAL |
| 15 | L | ACC POWER SUPPLY |
| 16 | R | AIR BAG SIGNAL |
| 17 | B | GROUND |
| 18 | V | AMBIENT SENSOR SIGNAL |
| 19 | G | A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL |
| 20 | GR | AMBIENT SENSOR GROUND |
| 21 | L | CAN-H |
| 22 | P | CAN-L |
| 23 | B | GROUND |
| 24 | Y | FUEL LEVEL SENSOR GROUND |

| Connector No. | M54 |
|---|---|
| Connector Name | COMBINATION METER |
| Connector Type | TH16FW-NH |

H.S.

| | | | | | | | | | 32 |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 26 | 27 | 28 | 29 | | | | | |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 25 | W | ALTERNATOR SIGNAL |
| 26 | O | PARKING BRAKE SWITCH SIGNAL |
| 27 | LG | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 28 | Y | SECURITY SIGNAL |
| 29 | GR | WASHER LEVEL SWITCH SIGNAL |
| 32 | G | PADDLE SHIFTER DOWN SIGNAL |
| 33 | O | PADDLE SHIFTER UP SIGNAL |
| 34 | BR | FUEL LEVEL SENSOR SIGNAL |
| 35 | L | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) |
| 36 | L | PASSENGER SEAT BELT WARNING SIGNAL [For Mexico] |
| 36 | P | PASSENGER SEAT BELT WARNING SIGNAL [Except for Mexico] |
| 37 | G | NON-MANUAL MODE SIGNAL |
| 38 | V | MANUAL MODE SHIFT DOWN SIGNAL |
| 39 | L | MANUAL MODE SHIFT UP SIGNAL |
| 40 | W | MANUAL MODE SIGNAL |

| Connector No. | M68 |
|---|---|
| Connector Name | PARKING BRAKE SWITCH |
| Connector Type | P01FB-A |

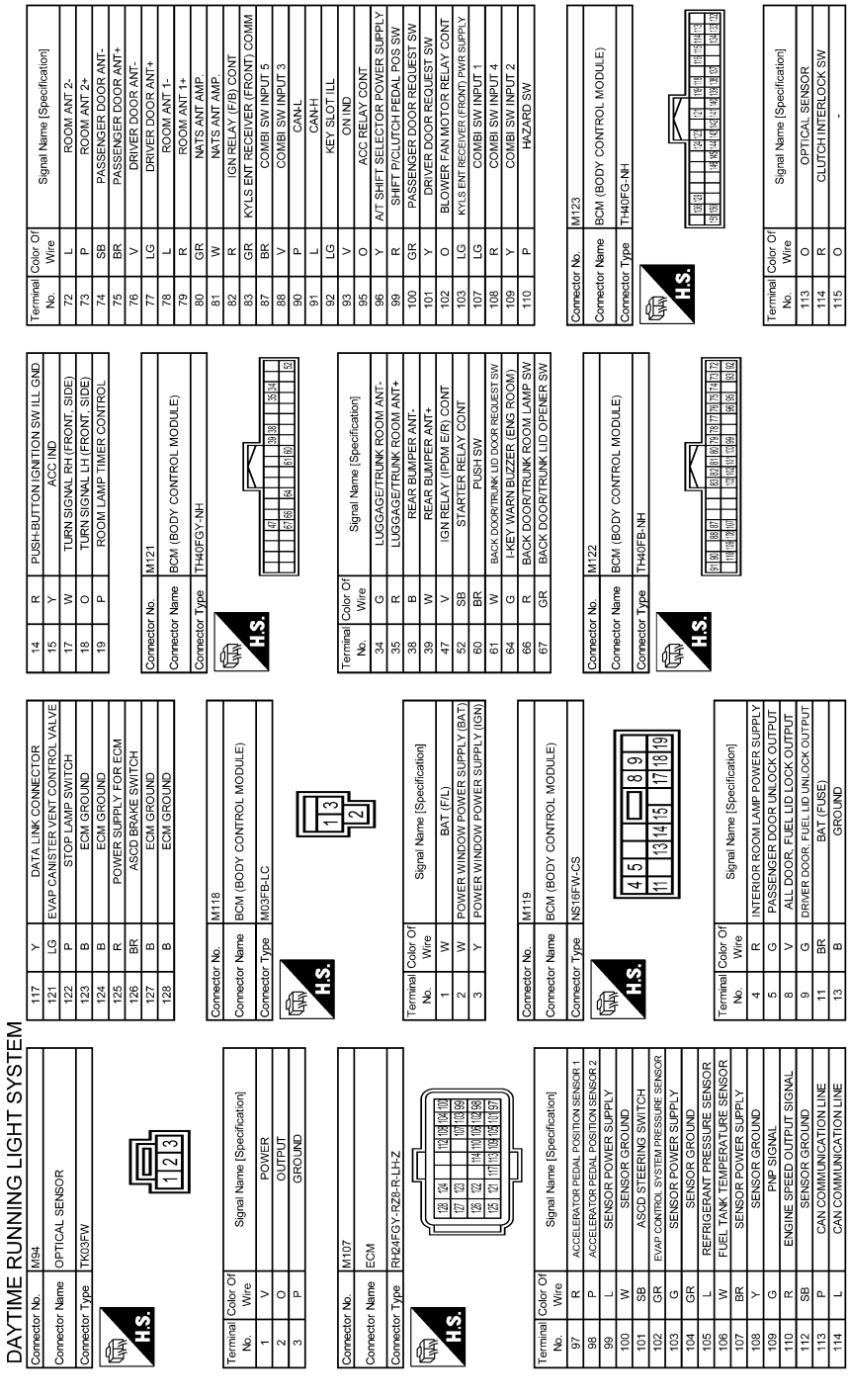
H.S.

| 1 |
|---|

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | O | - |

JRLWD7862GB

DAYTIME RUNNING LIGHT SYSTEM




JRLWD7863GB

DAYTIME RUNNING LIGHT SYSTEM

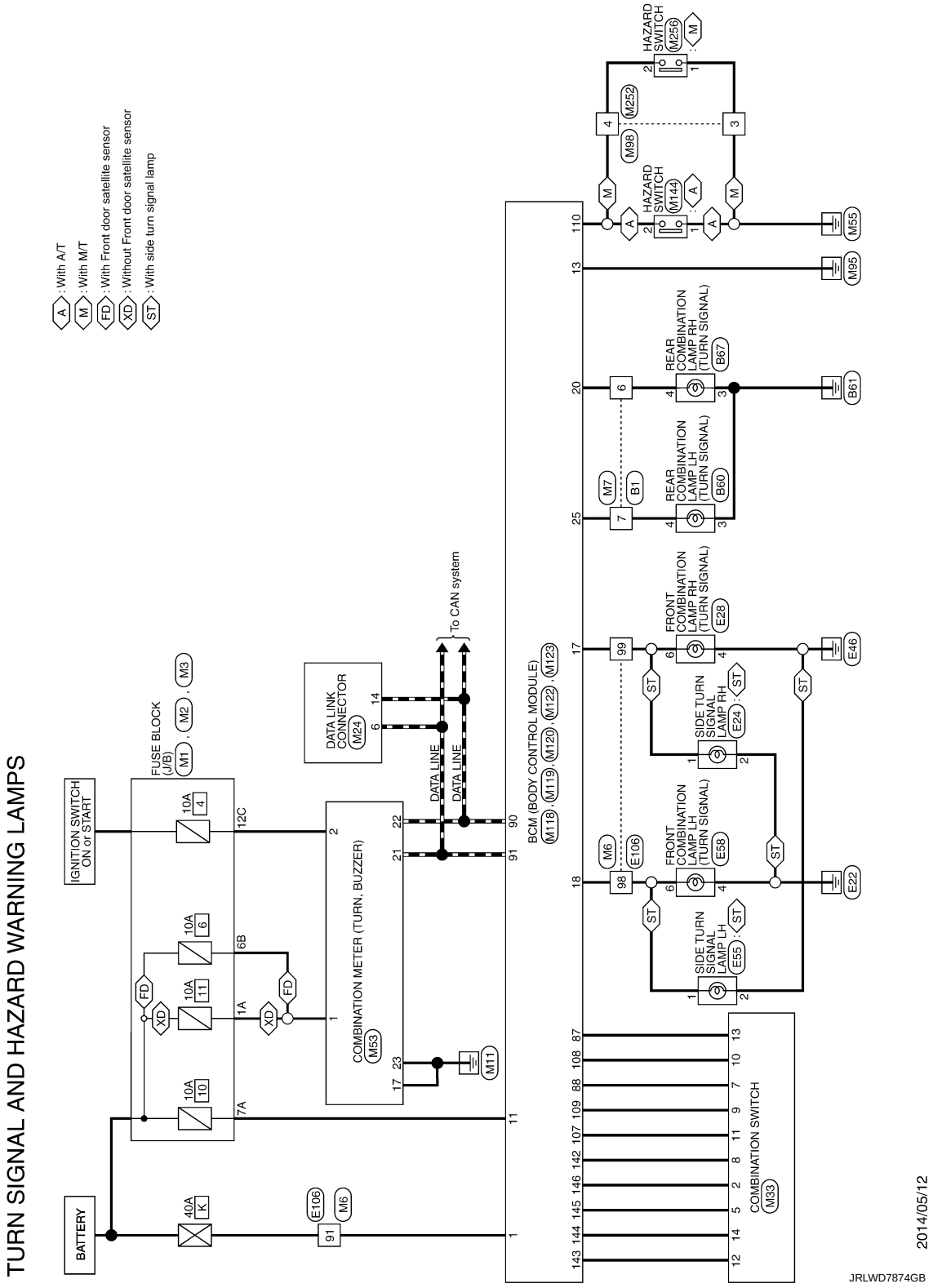
| | | |
|---|---|---|
| 116 | SB | STOP LAMP SW 1 |
| 118 | P | STOP LAMP SW 2 |
| 119 | SB | DR DOOR UNLOCK SENSOR |
| 121 | R | KEY SLOT SW |
| 123 | W | IGN F/B |
| 124 | LG | PASSENGER DOOR SW |
| 129 | O | TRUNK LID OPENER CANCEL SW |
| 130 | L | REAR DEFOGGER SW |
| 132 | V | P/W SW & SOFT TOP CAN COMM [Roadster models] |
| 132 | Y | POWER WINDOW SW COMM [Coupe models] |
| 133 | G | PUSH BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |
| 137 | P | RECEIVER &SENSOR GND |
| 138 | V | RECEIVER & SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESS RECEIV COMM |
| 140 | G | P/N POSITION |
| 141 | Y | SECURITY INDICATOR |
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 150 | GR | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

JRLWD7864GB

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

## Wiring Diagram

INFOID:0000000010840550



TURN SIGNAL AND HAZARD WARNING LAMPS

| Connector No. | B1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | BG | - |
| 3 | Y | - |
| 4 | W | - |
| 6 | V | - |
| 7 | LG | - |
| 8 | GR | - |
| 9 | SB | - |
| 11 | Y | - |
| 12 | W | - |
| 13 | BR | - |
| 14 | LG | - |
| 15 | B | - |
| 16 | V | - |
| 17 | R | - |
| 18 | B | - |
| 20 | SB | - |
| 21 | G | - |
| 22 | GR | - |
| 23 | V | - |
| 24 | BG | - |
| 25 | L | - |
| 26 | P | - |
| 27 | W | - |
| 28 | SHIELD | - |
| 31 | W | - |
| 32 | B | - |
| 33 | P | - [Coupe models] |
| 33 | W | - [Roadster models] |
| 34 | R | - |
| 35 | B | - [Roadster models] |
| 35 | W | - [Coupe models] |
| 36 | B | - |
| 40 | Y | - |
| 41 | L | - |
| 42 | GR | - |
| 43 | BR | - |
| 44 | R | - |
| 45 | BG | - |
| 46 | SB | - [Roadster models] |
| 46 | SHIELD | - [Coupe models] |
| 47 | V | - |
| 48 | SHIELD | - |
| 51 | W | - |
| 52 | R | - |
| 57 | SHIELD | - |
| 58 | B | - |
| 60 | V | - |
| 61 | SB | - |
| 62 | SHIELD | - |
| 63 | BR | - |
| 64 | Y | - |
| 65 | SHIELD | - |
| 66 | P | - |
| 67 | L | - |
| 68 | SHIELD | - |
| 69 | R | - |
| 70 | G | - |
| 71 | V | - |
| 72 | P | - |
| 73 | BR | - |
| 74 | GR | - |
| 75 | BG | - |
| 80 | Y | - |
| 81 | R | - |
| 82 | B | - |
| 83 | GR | - |
| 84 | G | - [Coupe models] |
| 84 | L | - [Roadster models] |
| 85 | LG | - |
| 86 | V | - |
| 87 | BR | - |
| 88 | GR | - |
| 93 | Y | - |
| 94 | G | - [Roadster models] |
| 94 | L | - [Coupe models] |
| 95 | GR | - [Coupe models] |
| 95 | LG | - [Roadster models] |
| 96 | L | - |
| 97 | Y | - |
| 98 | W | - [Coupe models] |
| 98 | Y/B | - [Roadster models] |
| 99 | LG | - |
| 100 | B | - |

| Connector No. | B60 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS06FGY-PR |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | R | - [Coupe models] |
| 2 | V | - [Roadster models] |
| 3 | B | - |
| 4 | LG | - |
| 6 | BG | - |

| Connector No. | B67 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS06FGY-PR |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | LG | - |
| 2 | R | - |
| 3 | B | - |
| 4 | V | - |
| 6 | BG | - |

| Connector No. | E24 |
|---|---|
| Connector Name | SIDE TURN SIGNAL LAMP RH |
| Connector Type | RK02FGY |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | V | - |
| 2 | B | - |

| Connector No. | E28 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH |
| Connector Type | RS06FGY-PR |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | B | - |
| 4 | B/W | - |
| 5 | R | - |
| 6 | LG | - |
| 7 | BR | - |
| 8 | P | - |

JRLWD7875GB

TURN SIGNAL AND HAZARD WARNING LAMPS

| Connector No. | E55 |
|---|---|
| Connector Name | SIDE TURN SIGNAL LAMP LH |
| Connector Type | RK02FGY |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - [Roadster models] |
| 1 | GR | - [Coupe models] |
| 2 | B | - |

| Connector No. | E58 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH |
| Connector Type | RS06FGY-PR |

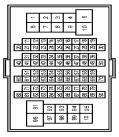
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | B | - |
| 4 | B/W | - |
| 5 | P | - |
| 6 | GR | - |
| 7 | LG | - |
| 8 | BG | - |

| Connector No. | E106 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |

H.S.

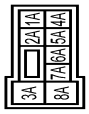


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | V | - |
| 12 | R | - |
| 13 | L | - |
| 14 | GR | - |
| 15 | P | - |
| 16 | W | - |
| 17 | SB | - |
| 20 | LG | - |
| 21 | BR | - [Coupe models] |
| 21 | G | - [Roadster models] |
| 31 | L | - |
| 32 | Y | - |
| 36 | V | - |
| 37 | Y | - |
| 38 | R | - |
| 39 | B | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | SB | - |
| 43 | G | - |
| 44 | GR | - [Except for roadster models with M/T] |
| 44 | R | - [Roadster models with M/T] |
| 45 | BG | - |
| 46 | W | - |
| 47 | P | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | P | - |
| 80 | W | - |
| 81 | P | - |

| 82 | G | - |
|---|---|---|
| 83 | V | - |
| 84 | L | - |
| 85 | BG | - |
| 86 | LG | - |
| 87 | R | - |
| 89 | P | - |
| 91 | W | - |
| 92 | L | - |
| 93 | G | - |
| 94 | Y | - |
| 96 | Y | - |
| 97 | BR | - |
| 98 | GR | - |
| 99 | LG | - |
| 100 | BG | - |

| Connector No. | M1 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |

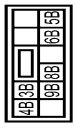
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1A | V | - |
| 2A | G | - |
| 3A | L | - |
| 4A | P | - |
| 5A | L | - |
| 6A | Y | - |
| 7A | BR | - |
| 8A | L | - |

| Connector No. | M2 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |

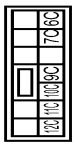
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3B | P | - |
| 4B | G | - |
| 5B | O | - |
| 6B | Y | - |
| 8B | R | - |
| 9B | SB | - |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 10C | L | - |
| 11C | LG | - |
| 12C | O | - |
| 6C | R | - |
| 7C | B | - |
| 9C | O | - |

JRLWD7876GB

TURN SIGNAL AND HAZARD WARNING LAMPS

| Connector No. | M6 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | GR | - |
| 12 | R | - |
| 13 | L | - |
| 14 | G | - |
| 15 | P | - |
| 16 | W | - |
| 17 | BR | - |
| 20 | GR | - |
| 21 | R | - |
| 31 | BR | - |
| 32 | V | - |
| 36 | SB | - |
| 37 | Y | - |
| 38 | LG | - |
| 39 | SB | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | R | - |
| 43 | G | - |
| 44 | G | - [With A/T] |
| 44 | R | - [With M/T] |
| 45 | O | - |
| 46 | G | - |
| 47 | BR | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | R | - |
| 60 | LG | - |
| 81 | GR | - |
| 82 | V | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BR | - |
| 86 | Y | - |
| 87 | G | - |
| 89 | P | - |
| 91 | W | - |
| 92 | P | - |
| 93 | P | - |
| 94 | Y | - |
| 96 | P | - |
| 97 | GR | - |
| 98 | O | - |
| 99 | W | - |
| 100 | R | - |

| Connector No. | M7 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | BR | - |
| 2 | O | - |
| 3 | LG | - |
| 4 | O | - |
| 6 | V | - |
| 7 | LG | - |
| 8 | SB | - |
| 9 | GR | - |
| 11 | Y | - |
| 12 | V | - |
| 13 | BR | - |
| 14 | V | - |
| 15 | B | - |
| 16 | V | - |
| 17 | R | - |
| 18 | L | - |
| 20 | SB | - |
| 21 | G | - |
| 22 | GR | - |
| 23 | V | - |
| 24 | R | - |
| 25 | L | - |
| 26 | P | - |
| 27 | B | - |
| 28 | SHIELD | - |
| 31 | W | - |
| 32 | B | - |
| 33 | W | - |
| 34 | R | - |
| 35 | B | - |
| 36 | L | - |
| 40 | L | - |
| 41 | R | - |
| 42 | GR | - |
| 43 | R | - |
| 44 | R | - |
| 45 | O | - |
| 46 | G | - [Roadster models]<br>- [Coupe models] |
| 46 | SHIELD | - |
| 47 | R | - |
| 48 | SHIELD | - |
| 51 | V | - |
| 52 | R | - |
| 57 | SHIELD | - |
| 58 | B | - |
| 60 | L | - |
| 61 | R | - |
| 62 | SHIELD | - |
| 63 | R | - |
| 64 | G | - |
| 65 | SHIELD | - |
| 66 | LG | - |
| 67 | V | - |
| 68 | SHIELD | - |
| 69 | L | - |
| 70 | P | - |
| 71 | V | - |
| 72 | P | - |
| 73 | BR | - |
| 74 | GR | - |
| 75 | O | - |
| 80 | Y | - |
| 81 | W | - |
| 82 | BR | - |
| 83 | GR | - |
| 84 | L | - |
| 85 | LG | - |
| 86 | V | - |
| 87 | BR | - |
| 88 | SB | - |
| 93 | Y | - |
| 94 | L | - [Roadster models]<br>- [Coupe models] |
| 94 | SB | - [Coupe models] |
| 95 | GR | - [Coupe models] |
| 95 | W | - [Roadster models] |
| 96 | L | - |
| 97 | LG | - [Coupe models] |
| 97 | Y | - [Roadster models] |
| 98 | BG | - [Coupe models] |
| 98 | Y/B | - [Roadster models] |
| 99 | W | - |
| 100 | B | - |

| Connector No. | M24 |
|---|---|
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |

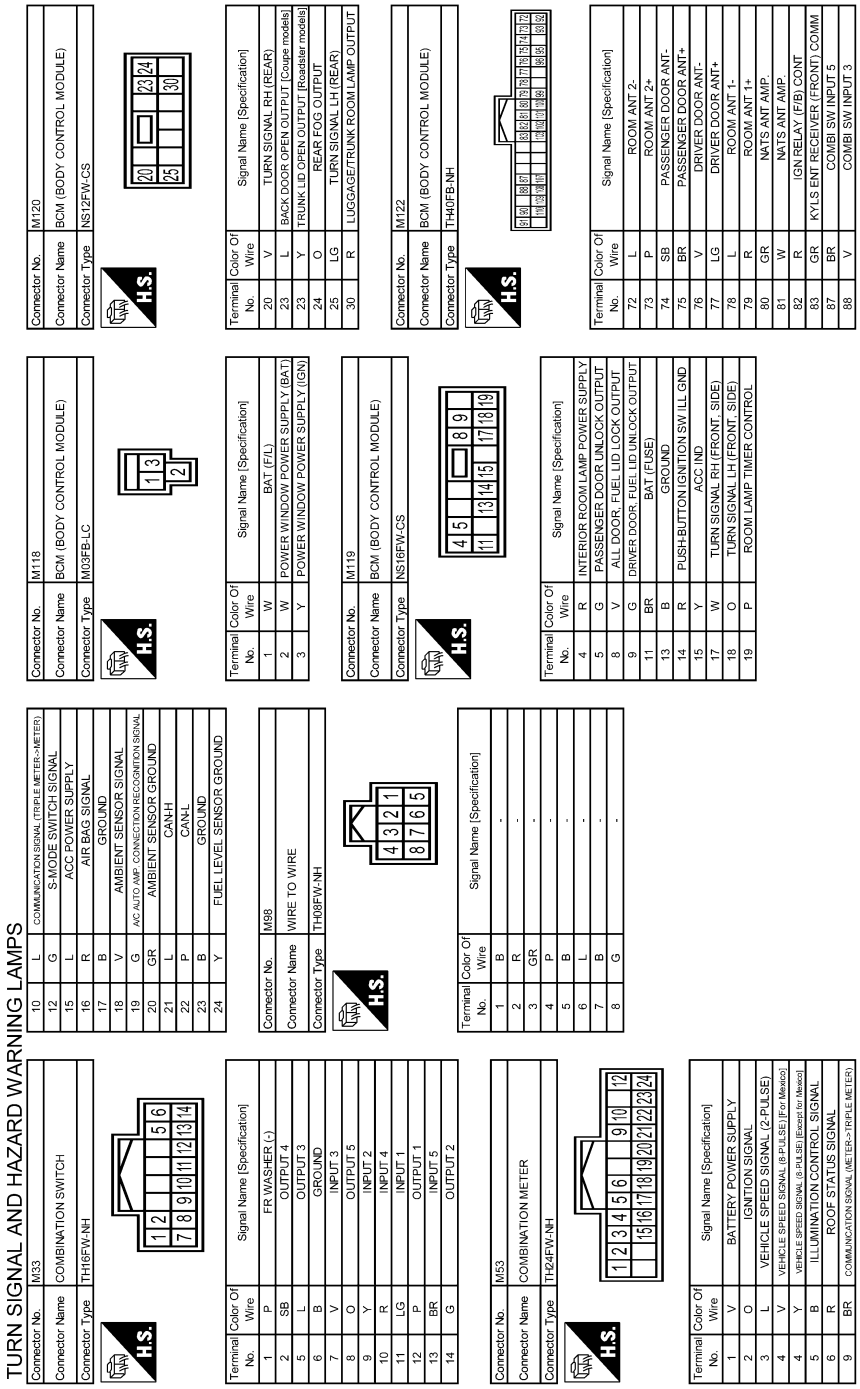
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | LG | - [Coupe models] |
| 3 | Y | - [Roadster models] |
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | Y | - |
| 8 | G | - |
| 11 | LG | - [Roadster models] |
| 11 | Y | - [Coupe models] |
| 14 | P | - |
| 16 | Y | - |

JRLWD7877GB

TURN SIGNAL AND HAZARD WARNING LAMPS




JRLWD7878GB

TURN SIGNAL AND HAZARD WARNING LAMPS

| 90 | P | CAN-L |
|---|---|---|
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL |
| 93 | V | ON IND |
| 95 | O | ACC RELAY CONT |
| 96 | Y | A/T SHIFT SELECTOR POWER SUPPLY |
| 99 | R | SHIFT P/CLUTCH PEDAL POS SW |
| 100 | GR | PASSENGER DOOR REQUEST SW |
| 101 | Y | DRIVER DOOR REQUEST SW |
| 102 | O | BLOWER FAN MOTOR RELAY CONT |
| 103 | LG | KYLS ENT RECEIVER (FRONT) PWR SUPPLY |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 4 |
| 109 | Y | COMBI SW INPUT 2 |
| 110 | P | HAZARD SW |

| Connector No. | M123 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 113 | O | OPTICAL SENSOR |
| 114 | R | CLUTCH INTERLOCK SW |
| 115 | O | - |
| 116 | SB | STOP LAMP SW 1 |
| 118 | P | STOP LAMP SW 2 |
| 119 | SB | DR DOOR UNLOCK SENSOR |
| 121 | R | KEY SLOT SW |
| 123 | W | IGN F/B |
| 124 | LG | PASSENGER DOOR SW |
| 129 | O | TRUNK LID OPENER CANCEL SW |
| 130 | L | REAR DEFOGGER SW |
| 132 | V | P/W SW & SOFT TOP CU COMM [Roadster models] |
| 132 | Y | POWER WINDOW SW COMM [Coupe models] |
| 133 | G | PUSH BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |
| 137 | P | RECEIVER &SENSOR GND |
| 138 | V | RECEIVER & SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESS RECEIV COMM |
| 140 | G | P/N POSITION |

| 141 | Y | SECURITY INDICATOR |
|---|---|---|
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 150 | GR | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

| Connector No. | M144 |
|---|---|
| Connector Name | HAZARD SWITCH |
| Connector Type | TK04FW |

H.S.

3 1 2 4

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | GR | GROUND |
| 2 | P | BCM |
| 3 | R | ILL+ |
| 4 | B | ILL- |

| Connector No. | M252 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MW-NH |

H.S.

1 2 3 4
5 6 7 8

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | BG | - [Coupe models] |
| 1 | O | - [Roadster models] |
| 2 | SB | - |
| 3 | B | - |
| 4 | G | - |
| 5 | B | - |

| 6 | L | - |
|---|---|---|
| 7 | G | - |
| 8 | G | - |

| Connector No. | M256 |
|---|---|
| Connector Name | HAZARD SWITCH |
| Connector Type | TK04FW |

H.S.

3 1 2 4

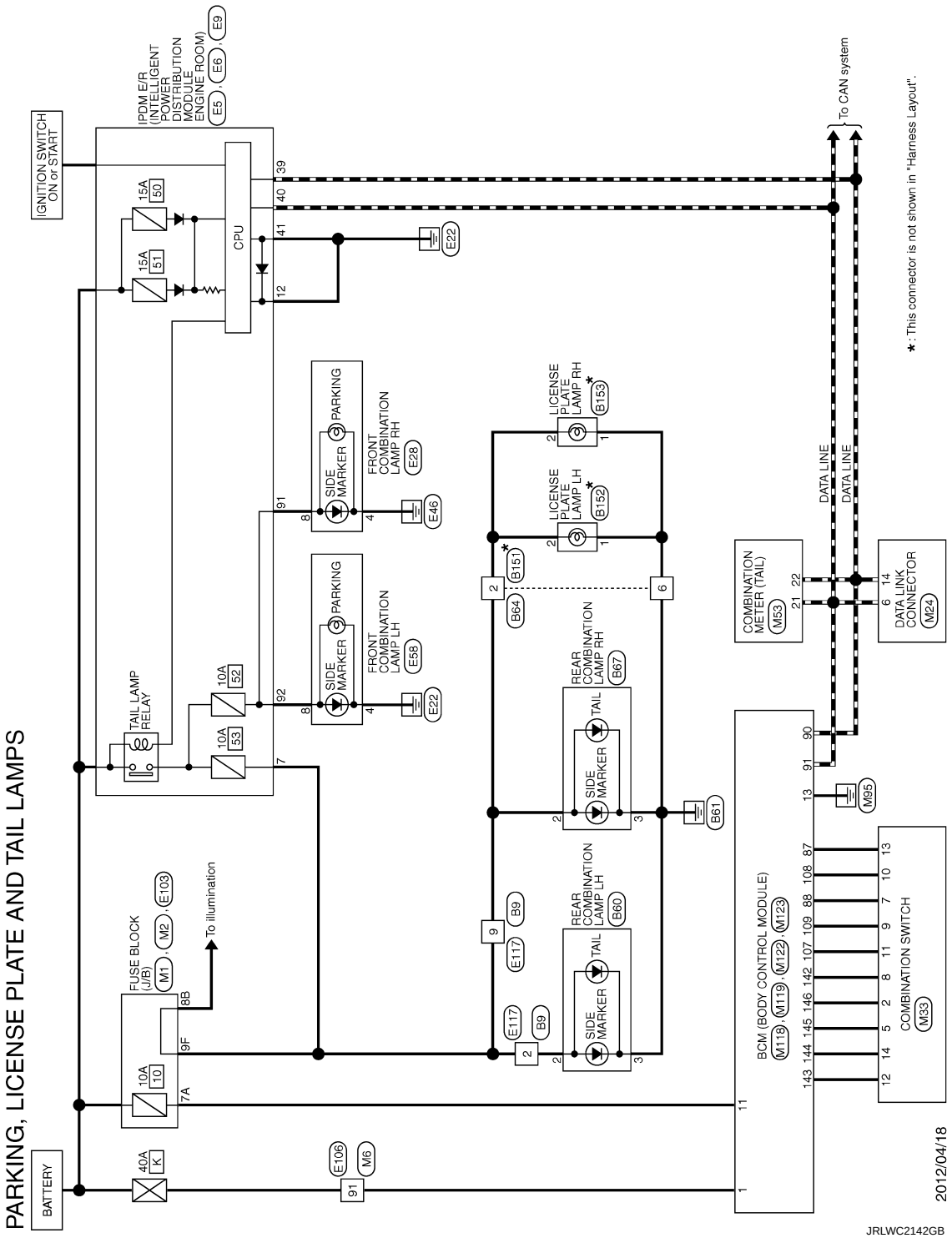
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | B | GROUND |
| 2 | G | BCM |
| 3 | SB | ILL+ |
| 4 | BG | ILL- [Coupe models] |
| 4 | O | ILL- [Roadster models] |

JRLWD7879GB

# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

## Wiring Diagram

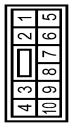
INFOID:0000000010840551



PARKING, LICENSE PLATE AND TAIL LAMPS

| Connector No. | B9 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS10FW-CS |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | P | - |
| 2 | R | - [Coupe models] |
| 2 | V | - [Roadster models] |
| 3 | Y | - |
| 4 | G | - |
| 5 | GR | - |
| 6 | BG | - |
| 7 | BR | - |
| 8 | LG | - |
| 9 | R | - |
| 10 | G | - |

| Connector No. | B64 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RS08FB-PR |

H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | P | - [Coupe models] |
| 1 | W | - [Roadster models] |
| 2 | R | - |
| 3 | R | - |
| 4 | W | - |
| 5 | GR | - |
| 6 | B | - |
| 7 | B | - |
| 8 | SHIELD | - |

| Connector No. | B151 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RS08MB |

H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | - | - |
| 2 | - | - |
| 3 | R | - |
| 4 | W | - |
| 5 | - | - |
| 6 | - | - |
| 7 | B | - |
| 8 | L | - |

| Connector No. | B152 |
|---|---|
| Connector Name | LICENSE PLATE LAMP LH |
| Connector Type | RK02FBR |

H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | B | - |
| 2 | R | - |

| Connector No. | B153 |
|---|---|
| Connector Name | LICENSE PLATE LAMP RH |
| Connector Type | RK02FBR |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | B | - |
| 2 | R | - |

| Connector No. | B67 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS06FGY-PR |

H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | LG | - |
| 2 | R | - |
| 3 | B | - |
| 4 | V | - |
| 6 | BG | - |

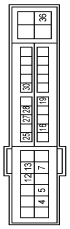
| Connector No. | B60 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS06FGY-PR |

H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | R | - [Coupe models] |
| 2 | V | - [Roadster models] |
| 3 | B | - |
| 4 | LG | - |
| 6 | BG | - |

| Connector No. | E5 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH20FW-CS12-M4-1V |

H.S.

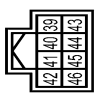



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 4 | V | - |
| 5 | L | - |
| 7 | R | - [Coupe models] |
| 7 | V | - [Roadster models] |
| 12 | B/W | - |
| 13 | Y | - |
| 16 | LG | - |
| 19 | W | - |
| 25 | G | - |
| 27 | Y | - |
| 28 | L | - |
| 30 | GR | - |
| 36 | G | - |

JRLWD7885GB

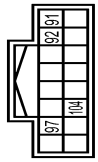
PARKING, LICENSE PLATE AND TAIL LAMPS

| Connector No. | E6 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH08FW-NH |




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 39 | P | - |
| 40 | L | - |
| 41 | B/W | - |
| 42 | Y | - |
| 43 | SB | - |
| 44 | W | - |
| 45 | G | - |
| 46 | V | - |

| Connector No. | E9 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH16FW-NH |




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 91 | P | - |
| 92 | BG | - |
| 97 | V | - |
| 104 | LG | - |

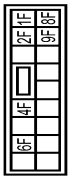
| Connector No. | E28 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH |
| Connector Type | RS06FGY-PR |


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | B | - |
| 4 | B/W | - |
| 5 | R | - |
| 6 | LG | - |
| 7 | BR | - |
| 8 | P | - |

| Connector No. | E58 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH |
| Connector Type | RS06FGY-PR |

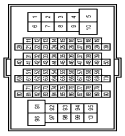

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | B | - |
| 4 | B/W | - |
| 5 | P | - |
| 6 | GR | - |
| 7 | LG | - |
| 8 | BG | - |

| Connector No. | E103 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1F | SB | - |
| 2F | W | - |
| 4F | G | - |
| 6F | BG | - |
| 8F | L | - |
| 9F | R | - [Coupe models] |
| 9F | V | - [Roadster models] |

| Connector No. | E106 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | V | - |
| 12 | R | - |
| 13 | L | - |
| 14 | GR | - |
| 15 | P | - |
| 16 | W | - |
| 17 | SB | - |

| | | |
|---|---|---|
| 20 | LG | - |
| 21 | BR | - [Coupe models] |
| 21 | G | - [Roadster models] |
| 31 | L | - |
| 32 | V | - |
| 36 | V | - |
| 37 | Y | - |
| 38 | R | - |
| 39 | B | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | SB | - |
| 43 | G | - |
| 44 | GR | - [Except for roadster models with M/T] |
| 44 | R | - [Roadster models with M/T] |
| 45 | BG | - |
| 46 | W | - |
| 47 | P | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | P | - |
| 80 | W | - |
| 81 | P | - |
| 82 | G | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BG | - |
| 86 | LG | - |
| 87 | R | - |
| 89 | P | - |
| 91 | W | - |
| 92 | L | - |
| 93 | G | - |
| 94 | Y | - |
| 96 | Y | - |
| 97 | BR | - |
| 98 | GR | - |
| 99 | LG | - |
| 100 | BG | - |

JRLWD7886GB

PARKING, LICENSE PLATE AND TAIL LAMPS

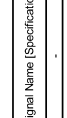
| Connector No. | E117 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS10MW-CS |

H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 2 | R | - |
| 3 | Y | - |
| 4 | G | - |
| 5 | GR | - |
| 6 | BG | - |
| 7 | BR | - |
| 8 | P | - |
| 9 | R | - |
| 10 | R | - |

| Connector No. | M1 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |

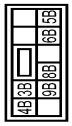
H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1A | V | - |
| 2A | G | - |
| 3A | L | - |
| 4A | P | - |
| 5A | L | - |
| 6A | Y | - |
| 7A | BR | - |
| 8A | L | - |

| Connector No. | M2 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |

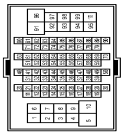
H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3B | P | - |
| 4B | G | - |
| 5B | O | - |
| 6B | Y | - |
| 8B | R | - |
| 9B | SB | - |

| Connector No. | M6 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.

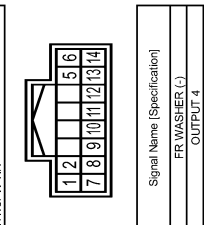


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | GR | - |
| 12 | R | - |
| 13 | L | - |
| 14 | G | - |
| 15 | P | - |
| 16 | W | - |
| 17 | BR | - |
| 20 | GR | - |

| 21 | R | - |
|---|---|---|
| 31 | BR | - |
| 32 | V | - |
| 36 | SB | - |
| 37 | Y | - |
| 38 | LG | - |
| 39 | SB | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | R | - |
| 43 | G | - |
| 44 | G | - [With A/T] |
| 44 | R | - [With M/T] |
| 45 | O | - |
| 46 | G | - |
| 47 | BR | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | R | - |
| 80 | LG | - |
| 81 | GR | - |
| 82 | V | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BR | - |
| 86 | Y | - |
| 87 | G | - |
| 89 | P | - |
| 91 | W | - |
| 92 | P | - |
| 93 | P | - |
| 94 | Y | - |
| 96 | P | - |
| 97 | GR | - |
| 98 | O | - |
| 99 | W | - |
| 100 | R | - |

| Connector No. | M24 |
|---|---|
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | LG | - [Coupe models] |
| 3 | Y | - [Roadster models] |
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | Y | - |
| 8 | G | - |
| 11 | LG | - [Roadster models] |
| 11 | Y | - [Coupe models] |
| 14 | P | - |
| 16 | Y | - |

| Connector No. | M33 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | P | FR WASHER (-) |
| 2 | SB | OUTPUT 4 |
| 5 | L | OUTPUT 3 |
| 6 | B | GROUND |
| 7 | V | INPUT 3 |
| 8 | O | OUTPUT 5 |
| 9 | Y | INPUT 2 |
| 10 | R | INPUT 4 |
| 11 | LG | INPUT 1 |

JRLWD7887GB

PARKING, LICENSE PLATE AND TAIL LAMPS

| | | |
|---|---|---|
| 12 | P | OUTPUT 1 |
| 13 | BR | INPUT 5 |
| 14 | G | OUTPUT 2 |

| | |
|---|---|
| Connector No. | M53 |
| Connector Name | COMBINATION METER |
| Connector Type | TH24FW-NH |

H.S.

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | | | 9 | 10 | | 12 | |
| | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | V | BATTERY POWER SUPPLY |
| 2 | O | IGNITION SIGNAL |
| 3 | L | VEHICLE SPEED SIGNAL (2-PULSE) |
| 4 | V | VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico] |
| 4 | Y | VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico] |
| 5 | B | ILLUMINATION CONTROL SIGNAL |
| 6 | R | ROOF STATUS SIGNAL |
| 9 | BR | COMMUNICATION SIGNAL (METER->TRIPLE METER) |
| 10 | L | COMMUNICATION SIGNAL (TRIPLE METER->METER) |
| 12 | G | S-MODE SWITCH SIGNAL |
| 15 | L | ACC POWER SUPPLY |
| 16 | R | AIR BAG SIGNAL |
| 17 | B | GROUND |
| 18 | V | AMBIENT SENSOR SIGNAL |
| 19 | G | A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL |
| 20 | GR | AMBIENT SENSOR GROUND |
| 21 | L | CAN-H |
| 22 | P | CAN-L |
| 23 | B | GROUND |
| 24 | Y | FUEL LEVEL SENSOR GROUND |

| | |
|---|---|
| Connector No. | M118 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | M03FB-LC |

H.S.

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

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | BAT (F/L) |
| 2 | W | POWER WINDOW POWER SUPPLY (BAT) |
| 3 | Y | POWER WINDOW POWER SUPPLY (IGN) |

| | |
|---|---|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS16FW-CS |

H.S.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | 5 | | | | | 8 | 9 | |
| 11 | | 13 | 14 | 15 | | 17 | 18 | 19 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 4 | R | INTERIOR ROOM LAMP POWER SUPPLY |
| 5 | G | PASSENGER DOOR UNLOCK OUTPUT |
| 8 | V | ALL DOOR, FUEL LID LOCK OUTPUT |
| 9 | G | DRIVER DOOR, FUEL LID UNLOCK OUTPUT |
| 11 | BR | BAT (FUSE) |
| 13 | B | GROUND |
| 14 | R | PUSH-BUTTON IGNITION SW ILL GND |
| 15 | Y | ACC IND |
| 17 | W | TURN SIGNAL RH (FRONT, SIDE) |
| 18 | O | TURN SIGNAL LH (FRONT, SIDE) |
| 19 | P | ROOM LAMP TIMER CONTROL |

| | |
|---|---|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |

H.S.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | 89 | | 88 | 87 | | | | 83 | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 |
| 110 | 108 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 72 | L | ROOM ANT 2- |
| 73 | P | ROOM ANT 2+ |
| 74 | SB | PASSENGER DOOR ANT- |
| 75 | BR | PASSENGER DOOR ANT+ |
| 76 | V | DRIVER DOOR ANT- |
| 77 | LG | DRIVER DOOR ANT+ |
| 78 | L | ROOM ANT 1- |
| 79 | R | ROOM ANT 1+ |
| 80 | GR | NATS ANT AMP. |
| 81 | W | NATS ANT AMP. |
| 82 | R | IGN RELAY (F/B) CONT |
| 83 | GR | KYLS ENT RECEIVER (FRONT) COMM |
| 87 | BR | COMBI SW INPUT 5 |
| 88 | V | COMBI SW INPUT 3 |
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL |
| 93 | V | ON IND |
| 95 | O | ACC RELAY CONT |
| 96 | Y | A/T SHIFT SELECTOR POWER SUPPLY |
| 99 | R | SHIFT P/CLUTCH PEDAL POS SW |
| 100 | GR | PASSENGER DOOR REQUEST SW |
| 101 | Y | DRIVER DOOR REQUEST SW |
| 102 | O | BLOWER FAN MOTOR RELAY CONT |
| 103 | LG | KYLS ENT RECEIVER (FRONT) PWR SUPPLY |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 4 |
| 109 | Y | COMBI SW INPUT 2 |
| 110 | P | HAZARD SW |

| | |
|---|---|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |

H.S.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | 89 | | 88 | 87 | | | | 83 | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 |
| 110 | 108 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 90 | 89 | 88 |

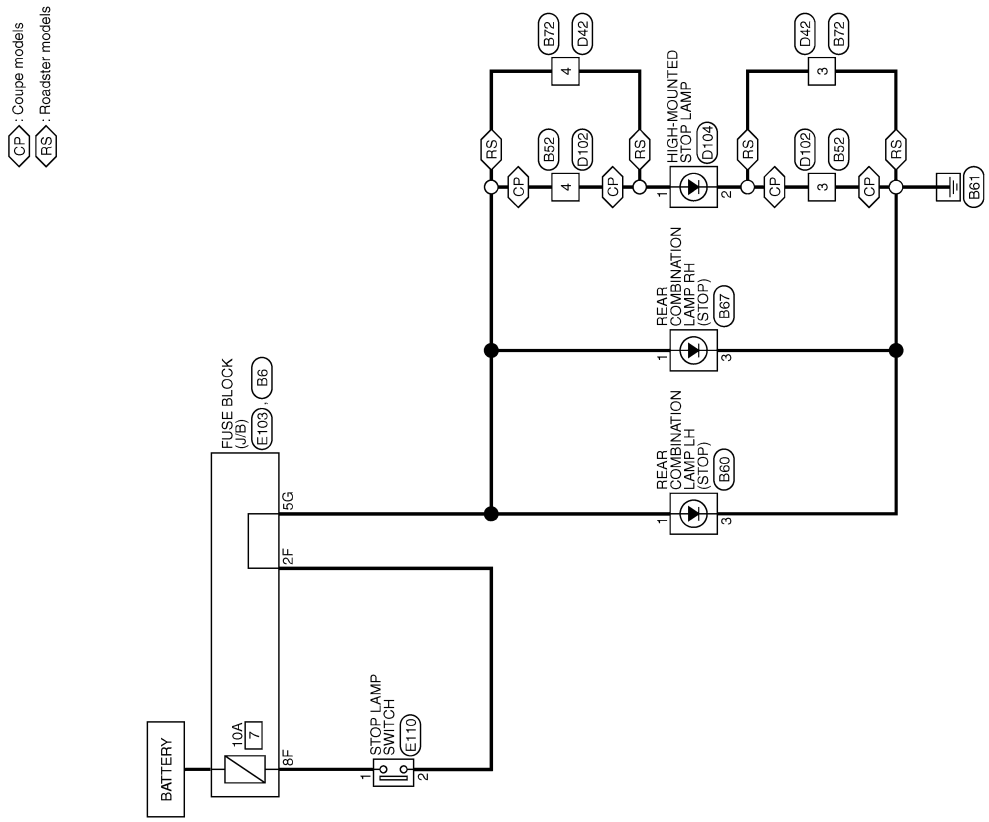
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 113 | O | OPTICAL SENSOR |
| 114 | R | CLUTCH INTERLOCK SW |
| 115 | O | - |
| 116 | SB | STOP LAMP SW 1 |
| 118 | P | STOP LAMP SW 2 |
| 119 | SB | DR DOOR UNLOCK SENSOR |
| 121 | R | KEY SLOT SW |
| 123 | W | IGN F/B |
| 124 | LG | PASSENGER DOOR SW |
| 129 | O | TRUNK LID OPENER CANCEL SW |
| 130 | L | REAR DEFOGGER SW |
| 132 | V | P/W SW & SOFT TOP CLU COMM [Roadster models] |
| 132 | Y | POWER WINDOW SW COMM [Coupe models] |
| 133 | G | PUSH BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |
| 137 | P | RECEIVER &SENSOR GND |
| 138 | V | RECEIVER & SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESS RECEIV COMM |
| 140 | G | P/N POSITION |
| 141 | Y | SECURITY INDICATOR |
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 150 | GR | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

JRLWD7888GB

# STOP LAMP

## Wiring Diagram

INFOID:0000000010840552



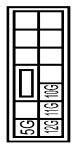

STOP LAMP

2009/07/10

JCLWM4079GB

STOP LAMP

| Connector No. | B6 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FBR-CS |




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 10G | P | - [Roadster models] |
| 10G | W | - [Coupe models] |
| 11G | G | - [Roadster models] |
| 11G | W | - [Coupe models] |
| 12G | Y | - |
| 5G | LG | - |

| Connector No. | B52 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH04MW-NH |




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | L | - |
| 4 | LG | - |

| Connector No. | B60 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS06FGY-PR |


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | R | - [Coupe models] |
| 2 | V | - [Roadster models] |
| 3 | B | - |
| 4 | LG | - |
| 6 | BG | - |

| Connector No. | B67 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS06FGY-PR |


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | LG | - |
| 2 | R | - |
| 3 | B | - |
| 4 | V | - |
| 6 | BG | - |

| Connector No. | B72 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS04MW-CS |


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | L | - |
| 4 | LG | - |

| Connector No. | D42 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS04FW-CS |


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | B | - |
| 4 | LG | - |

| Connector No. | D102 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH04FW-NH |


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 3 | B | - |
| 4 | LG | - |

| Connector No. | D104 |
|---|---|
| Connector Name | HIGH-MOUNTED STOP LAMP |
| Connector Type | TK02FW |

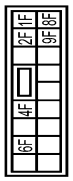

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | LG | - |
| 2 | B | - |

JRLWD7880GB

STOP LAMP

| Connector No. | E103 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1F | SB | - |
| 2F | W | - |
| 4F | G | - |
| 6F | BG | - |
| 8F | L | - |
| 9F | R | - [Coupe models] |
| 9F | V | - [Roadster models] |

| Connector No. | E110 |
|---|---|
| Connector Name | STOP LAMP SWITCH |
| Connector Type | M04FW-LC |

H.S.

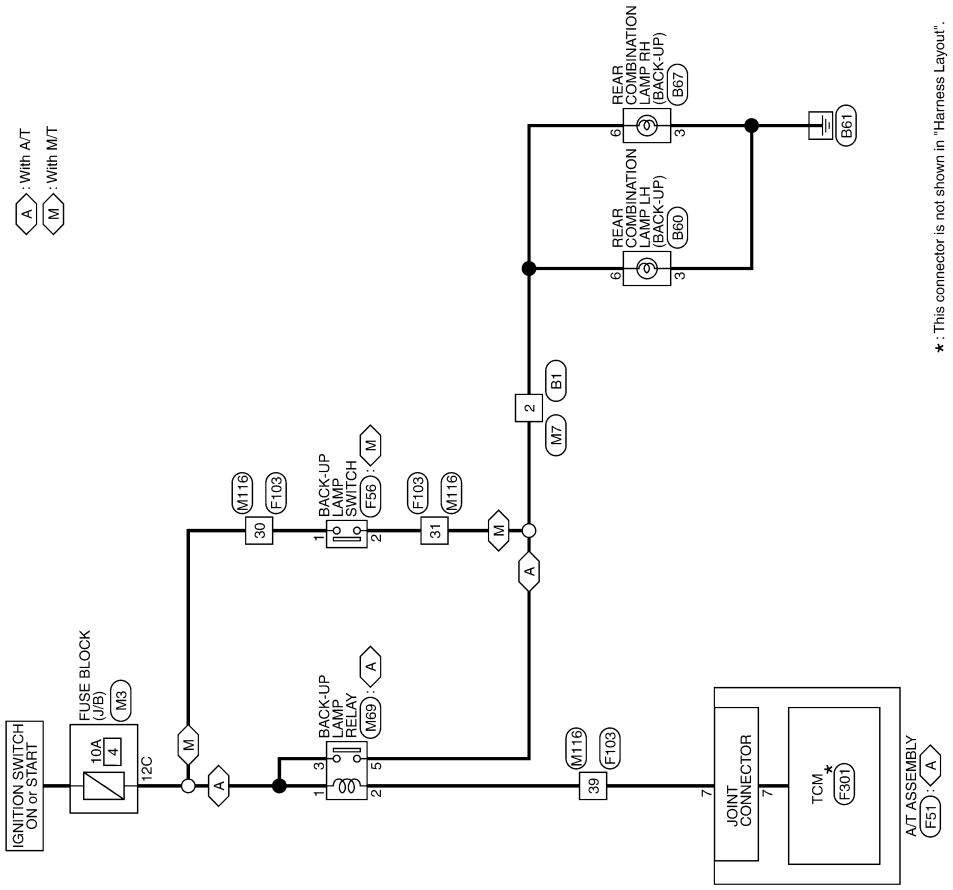

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | L | - |
| 2 | W | - |
| 3 | G | - |
| 4 | P | - |

JRLWD7881GB

# BACK-UP LAMP

## Wiring Diagram

INFOID:0000000010840553




BACK-UP LAMP

2014/05/12

JRLWD8057GB

BACK-UP LAMP

| Connector No. | B1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | BG | - |
| 3 | Y | - |
| 4 | W | - |
| 6 | V | - |
| 7 | LG | - |
| 8 | GR | - |
| 9 | SB | - |
| 11 | Y | - |
| 12 | W | - |
| 13 | BR | - |
| 14 | LG | - |
| 15 | B | - |
| 16 | V | - |
| 17 | R | - |
| 18 | B | - |
| 20 | SB | - |
| 21 | G | - |
| 22 | GR | - |
| 23 | V | - |
| 24 | BG | - |
| 25 | L | - |
| 26 | P | - |
| 27 | W | - |
| 28 | SHIELD | - |
| 31 | W | - |
| 32 | B | - |
| 33 | P | - [Coupe models] |
| 33 | W | - [Roadster models] |
| 34 | R | - |
| 35 | B | - [Roadster models] |
| 35 | W | - [Coupe models] |
| 36 | B | - |
| 40 | Y | - |
| 41 | L | - |
| 42 | GR | - |
| 43 | BR | - |
| 44 | R | - |
| 45 | BG | - |
| 46 | SB | - [Roadster models] |
| 46 | SHIELD | - [Coupe models] |
| 47 | V | - |
| 48 | SHIELD | - |
| 51 | W | - |
| 52 | R | - |
| 57 | SHIELD | - |
| 58 | B | - |
| 60 | V | - |
| 61 | SB | - |
| 62 | SHIELD | - |
| 63 | BR | - |
| 64 | Y | - |
| 65 | SHIELD | - |
| 66 | P | - |
| 67 | L | - |
| 68 | SHIELD | - |
| 69 | R | - |
| 70 | G | - |
| 71 | V | - |
| 72 | P | - |
| 73 | BR | - |
| 74 | GR | - |
| 75 | BG | - |
| 80 | Y | - |
| 81 | R | - |
| 82 | B | - |
| 83 | GR | - |
| 84 | G | - [Coupe models] |
| 84 | L | - [Roadster models] |
| 85 | LG | - |
| 86 | V | - |
| 87 | BR | - |
| 88 | GR | - |
| 93 | Y | - |
| 94 | G | - [Roadster models] |
| 94 | L | - [Coupe models] |
| 95 | GR | - [Coupe models] |
| 95 | LG | - [Roadster models] |
| 96 | L | - |
| 97 | Y | - |
| 98 | W | - [Coupe models] |
| 98 | Y/B | - [Roadster models] |
| 99 | LG | - |
| 100 | B | - |

| Connector No. | B60 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS06FGY-PR |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | R | - [Coupe models] |
| 2 | V | - [Roadster models] |
| 3 | B | - |
| 4 | LG | - |
| 6 | BG | - |

| Connector No. | B67 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS06FGY-PR |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | LG | - |
| 2 | R | - |
| 3 | B | - |
| 4 | V | - |
| 6 | BG | - |

| Connector No. | F51 |
|---|---|
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK10FG-DGY |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | IGNITION POWER SUPPLY |
| 2 | BR | BATTERY POWER SUPPLY (MEMORY BACK-UP) |
| 3 | L | CAN-H |
| 4 | V | K-LINE |
| 5 | B | GROUND |
| 6 | Y | IGNITION POWER SUPPLY |
| 7 | W | BACK-UP LAMP RELAY |
| 8 | P | CAN-L |
| 9 | GR | STARTER RELAY |
| 10 | B | GROUND |

| Connector No. | F56 |
|---|---|
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | RK02FB |

H.S.



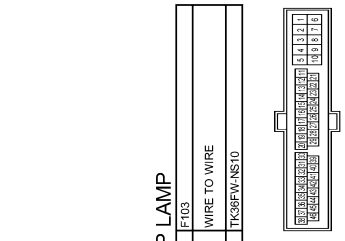
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | R | - |
| 2 | O | - |

JRLWD7882GB

BACK-UP LAMP

| Connector No. | F103 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-NS10 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 2 | G | - |
| 3 | W | - |
| 4 | R | - |
| 5 | B | - |
| 8 | L | - |
| 9 | Y | - |
| 10 | GR | - |
| 19 | O | - |
| 20 | Y | - |
| 28 | B | - |
| 29 | LG | - |
| 30 | R | - |
| 31 | O | - |
| 39 | W | - |
| 42 | G | - |
| 43 | P | - |
| 44 | L | - |
| 45 | Y | - |
| 46 | V | - |

| Connector No. | F301 |
|---|---|
| Connector Name | TCM |
| Connector Type | SP10FG |

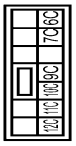
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | IGNITION POWER SUPPLY |
| 2 | B | BATTERY POWER SUPPLY (MEMORY BACK-UP) |
| 3 | R | CAN-H |
| 4 | O | K-LINE |
| 5 | G | GROUND |
| 6 | GR | IGNITION POWER SUPPLY |
| 7 | L | BACK-UP LAMP RELAY |
| 8 | BR | CAN-L |
| 9 | Y | STARTER RELAY |
| 10 | W/B | GROUND |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS |

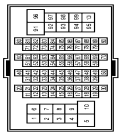
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 10C | L | - |
| 11C | LG | - |
| 12C | O | - |
| 6C | R | - |
| 7C | B | - |
| 9C | O | - |

| Connector No. | M7 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.



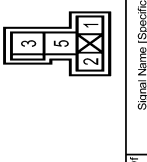
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | BR | - |
| 2 | O | - |
| 3 | LG | - |
| 4 | O | - |
| 6 | V | - |
| 7 | LG | - |
| 8 | SB | - |
| 9 | GR | - |
| 11 | Y | - |
| 12 | V | - |
| 13 | BR | - |
| 14 | V | - |
| 15 | B | - |
| 16 | V | - |
| 17 | R | - |
| 18 | L | - |
| 20 | SB | - |
| 21 | G | - |
| 22 | GR | - |
| 23 | V | - |
| 24 | R | - |
| 25 | L | - |
| 26 | P | - |
| 27 | B | - |
| 28 | SHIELD | - |
| 31 | W | - |
| 32 | B | - |
| 33 | W | - |
| 34 | R | - |
| 35 | B | - |
| 36 | L | - |
| 40 | L | - |
| 41 | R | - |
| 42 | GR | - |
| 43 | R | - |
| 44 | R | - |
| 45 | O | - |
| 46 | G | - [Roadster models] |
| 46 | SHIELD | - [Coupe models] |
| 47 | R | - |
| 48 | SHIELD | - |
| 51 | V | - |
| 52 | R | - |
| 57 | SHIELD | - |
| 58 | B | - |
| 60 | L | - |
| 61 | R | - |
| 62 | SHIELD | - |
| 63 | R | - |
| 64 | G | - |
| 65 | SHIELD | - |
| 66 | LG | - |
| 67 | V | - |
| 68 | SHIELD | - |
| 69 | L | - |
| 70 | P | - |
| 71 | V | - |
| 72 | P | - |
| 73 | BR | - |
| 74 | GR | - |
| 75 | O | - |
| 80 | Y | - |
| 81 | W | - |
| 82 | BR | - |
| 83 | GR | - |
| 84 | L | - |
| 85 | LG | - |
| 86 | V | - |
| 87 | BR | - |
| 88 | SB | - |
| 93 | Y | - |
| 94 | L | - [Roadster models] |
| 94 | SB | - [Coupe models] |
| 95 | GR | - [Coupe models] |
| 95 | W | - [Roadster models] |
| 96 | L | - |
| 97 | LG | - [Coupe models] |
| 97 | Y | - [Roadster models] |
| 98 | BG | - [Coupe models] |
| 98 | Y/B | - [Roadster models] |
| 99 | W | - |
| 100 | B | - |

JRLWD7883GB

BACK-UP LAMP

| Connector No. | M69 |
|---|---|
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MSI02FL-M2-LC |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | - |
| 2 | G | - |
| 3 | R | - |
| 5 | O | - |

| Connector No. | M116 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36MW-NS10 |

H.S.


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 2 | W | - |
| 3 | BG | - [Coupe models] |
| 3 | O | - [Roadster models] |
| 4 | W | - |
| 5 | B | - |
| 8 | L | - |
| 9 | Y | - |
| 10 | R | - |
| 19 | O | - |
| 20 | G | - |
| 28 | B | - |
| 29 | LG | - |
| 30 | LG | - |
| 31 | O | - |
| 39 | G | - |
| 42 | G | - |

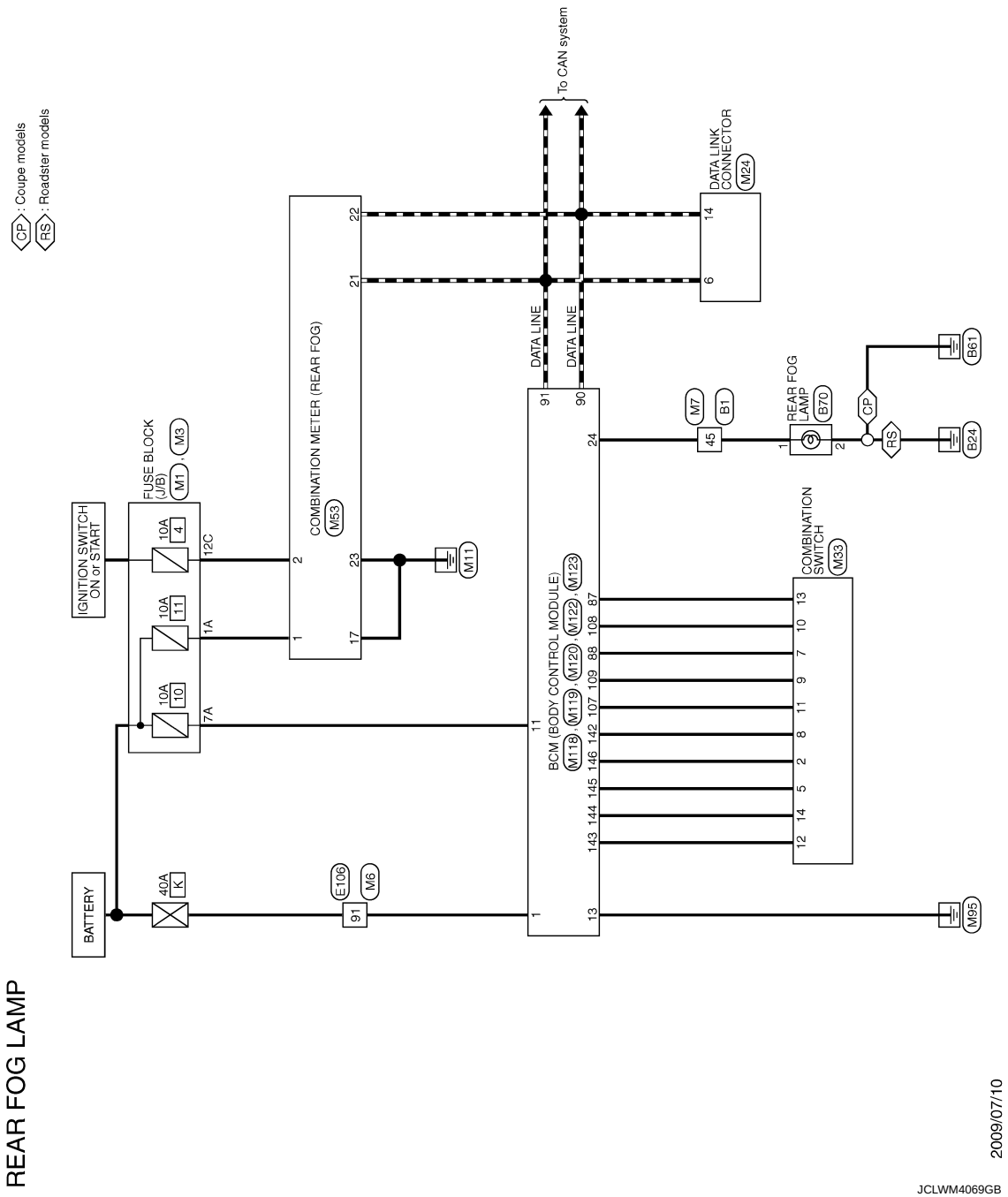
| 43 | P | - |
|---|---|---|
| 44 | L | - |
| 45 | BR | - |
| 46 | V | - |

JRLWD7884GB

# REAR FOG LAMP SYSTEM

## Wiring Diagram

INFOID:0000000010840554



REAR FOG LAMP

| Connector No. | B1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | BG | - |
| 3 | Y | - |
| 4 | W | - |
| 6 | V | - |
| 7 | LG | - |
| 8 | GR | - |
| 9 | SB | - |
| 11 | Y | - |
| 12 | W | - |
| 13 | BR | - |
| 14 | LG | - |
| 15 | B | - |
| 16 | V | - |
| 17 | R | - |
| 18 | B | - |
| 20 | SB | - |
| 21 | G | - |
| 22 | GR | - |
| 23 | V | - |
| 24 | BG | - |
| 25 | L | - |
| 26 | P | - |
| 27 | W | - |
| 28 | SHIELD | - |
| 31 | W | - |
| 32 | B | - |
| 33 | P | - [Coupe models] |
| 33 | W | - [Roadster models] |
| 34 | R | - |
| 35 | B | - [Roadster models] |
| 35 | W | - [Coupe models] |
| 36 | B | - |
| 40 | Y | - |
| 41 | L | - |

| 42 | GR | - |
|---|---|---|
| 43 | BR | - |
| 44 | R | - |
| 45 | BG | - |
| 46 | SB | - [Roadster models] |
| 46 | SHIELD | - [Coupe models] |
| 47 | V | - |
| 48 | SHIELD | - |
| 51 | W | - |
| 52 | R | - |
| 57 | SHIELD | - |
| 58 | B | - |
| 60 | V | - |
| 61 | SB | - |
| 62 | SHIELD | - |
| 63 | BR | - |
| 64 | Y | - |
| 65 | SHIELD | - |
| 66 | P | - |
| 67 | L | - |
| 68 | SHIELD | - |
| 69 | R | - |
| 70 | G | - |
| 71 | V | - |
| 72 | P | - |
| 73 | BR | - |
| 74 | GR | - |
| 75 | BG | - |
| 80 | Y | - |
| 81 | R | - |
| 82 | B | - |
| 83 | GR | - |
| 84 | G | - [Coupe models] |
| 84 | L | - [Roadster models] |
| 85 | LG | - |
| 86 | V | - |
| 87 | BR | - |
| 88 | GR | - |
| 93 | Y | - |
| 94 | G | - [Roadster models] |
| 94 | L | - [Coupe models] |
| 95 | GR | - [Coupe models] |
| 95 | LG | - [Roadster models] |
| 96 | L | - |
| 97 | Y | - |
| 98 | W | - [Coupe models] |
| 98 | Y/B | - [Roadster models] |
| 99 | LG | - |
| 100 | B | - |

| Connector No. | B70 |
|---|---|
| Connector Name | REAR FOG LAMP |
| Connector Type | RS02FGY |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | BG | - |
| 2 | B | - |

| Connector No. | E106 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | V | - |
| 12 | R | - |
| 13 | L | - |
| 14 | GR | - |
| 15 | P | - |
| 16 | W | - |
| 17 | SB | - |
| 20 | LG | - |
| 21 | BR | - [Coupe models] |
| 21 | G | - [Roadster models] |
| 31 | L | - |

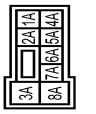
| 32 | Y | - |
|---|---|---|
| 36 | V | - |
| 37 | Y | - |
| 38 | R | - |
| 39 | B | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | SB | - |
| 43 | G | - |
| 44 | GR | - [Except for roadster models with M/T] |
| 44 | R | - [Roadster models with M/T] |
| 45 | BG | - |
| 46 | W | - |
| 47 | P | - |
| 58 | SHIELD | - |
| 59 | L | - |
| 70 | P | - |
| 80 | W | - |
| 81 | P | - |
| 82 | G | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BG | - |
| 86 | LG | - |
| 87 | R | - |
| 89 | P | - |
| 91 | W | - |
| 92 | L | - |
| 93 | G | - |
| 94 | Y | - |
| 96 | Y | - |
| 97 | BR | - |
| 98 | GR | - |
| 99 | LG | - |
| 100 | BG | - |

JRLWD7870GB

REAR FOG LAMP

| Connector No. | M1 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |

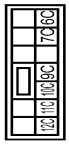
H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1A | V | - |
| 2A | G | - |
| 3A | L | - |
| 4A | P | - |
| 5A | L | - |
| 6A | Y | - |
| 7A | BR | - |
| 8A | L | - |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS |

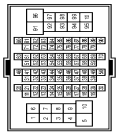
H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 10C | L | - |
| 11C | LG | - |
| 12C | O | - |
| 6C | R | - |
| 7C | B | - |
| 9C | O | - |

| Connector No. | M6 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

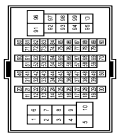
H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | Y | - |
| 3 | L | - |
| 4 | L | - |
| 7 | B | - |
| 8 | P | - |
| 9 | B | - |
| 11 | GR | - |
| 12 | R | - |
| 13 | L | - |
| 14 | G | - |
| 15 | P | - |
| 16 | W | - |
| 17 | BR | - |
| 20 | GR | - |
| 21 | R | - |
| 31 | BR | - |
| 32 | V | - |
| 36 | SB | - |
| 37 | Y | - |
| 38 | LG | - |
| 39 | SB | - |
| 40 | W | - |
| 41 | LG | - |
| 42 | R | - |
| 43 | G | - |
| 44 | G | - [With A/T] |
| 44 | R | - [With M/T] |
| 45 | O | - |
| 46 | G | - |
| 47 | BR | - |
| 58 | SHIELD | - |
| 70 | L | - |
| 80 | LG | - |
| 81 | GR | - |
| 82 | V | - |
| 83 | V | - |
| 84 | L | - |
| 85 | BR | - |
| 86 | Y | - |
| 87 | G | - |
| 89 | P | - |
| 91 | W | - |
| 92 | P | - |
| 93 | P | - |
| 94 | Y | - |
| 96 | P | - |
| 97 | GR | - |
| 98 | O | - |
| 99 | W | - |
| 100 | R | - |

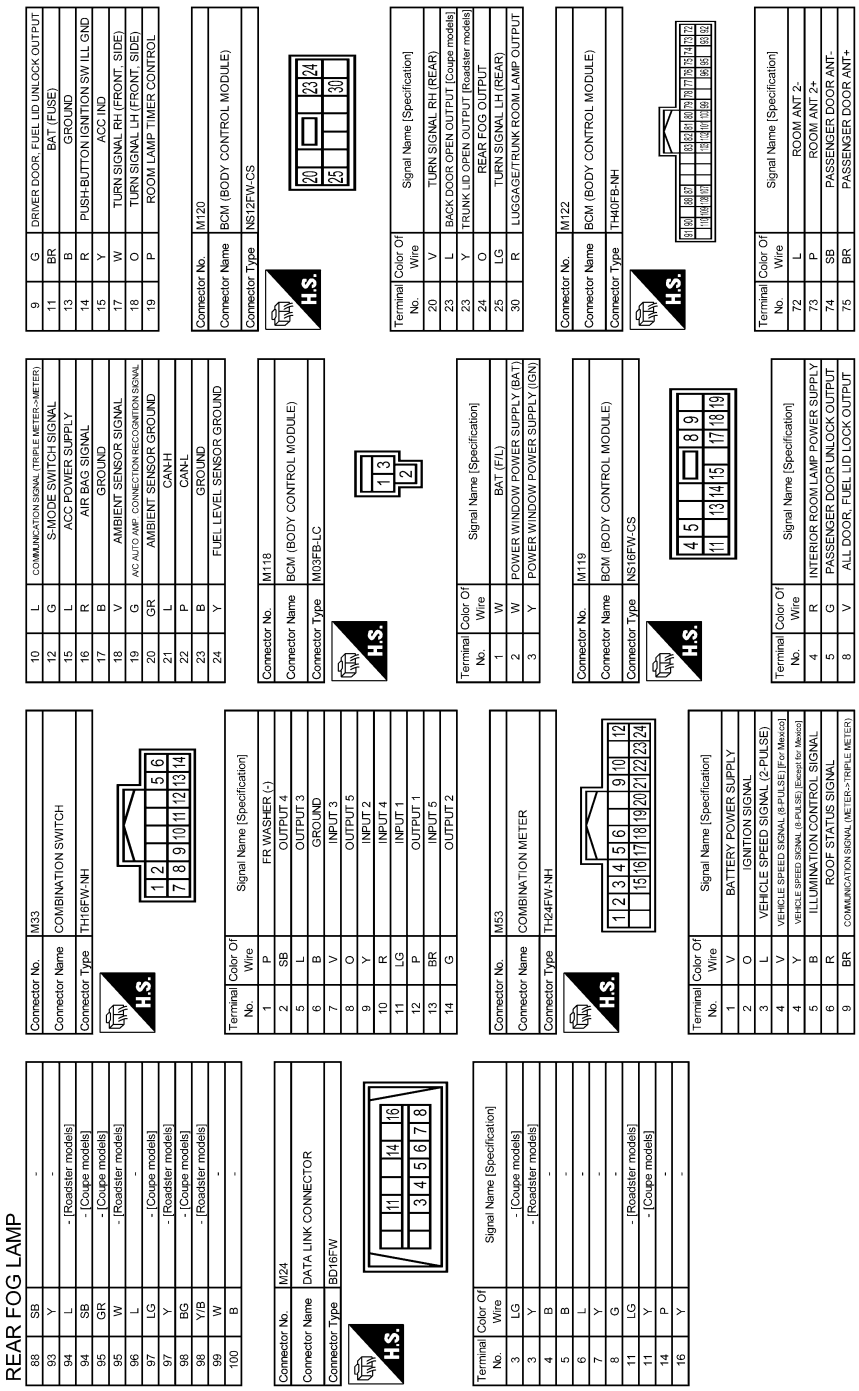
| Connector No. | M7 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

H.S.



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | BR | - |
| 2 | O | - |
| 3 | LG | - |
| 4 | O | - |
| 6 | V | - |
| 7 | LG | - |
| 8 | SB | - |
| 9 | GR | - |
| 11 | Y | - |
| 12 | V | - |
| 13 | BR | - |
| 14 | V | - |
| 15 | B | - |
| 16 | V | - |
| 17 | R | - |
| 18 | L | - |
| 20 | SB | - |
| 21 | G | - |
| 22 | GR | - |
| 23 | V | - |
| 24 | R | - |
| 25 | L | - |
| 26 | P | - |
| 27 | B | - |
| 28 | SHIELD | - |
| 31 | W | - |
| 32 | B | - |
| 33 | W | - |
| 34 | R | - |
| 35 | B | - |
| 36 | L | - |
| 40 | L | - |
| 41 | R | - |
| 42 | GR | - |
| 43 | R | - |
| 44 | R | - |
| 45 | O | - |
| 46 | G | - [Roadster models] |
| 46 | SHIELD | - [Coupe models] |
| 47 | R | - |
| 48 | SHIELD | - |
| 51 | V | - |
| 52 | R | - |
| 57 | SHIELD | - |
| 58 | B | - |
| 60 | L | - |
| 61 | R | - |
| 62 | SHIELD | - |
| 63 | R | - |
| 64 | G | - |
| 65 | SHIELD | - |
| 66 | LG | - |
| 67 | V | - |
| 68 | SHIELD | - |
| 69 | L | - |
| 70 | P | - |
| 71 | V | - |
| 72 | P | - |
| 73 | BR | - |
| 74 | GR | - |
| 75 | O | - |
| 80 | Y | - |
| 81 | W | - |
| 82 | BR | - |
| 83 | GR | - |
| 84 | L | - |
| 85 | LG | - |
| 86 | V | - |
| 87 | BR | - |

JRLWD7871GB




JRLWD7872GB

REAR FOG LAMP

| | | |
|---|---|---|
| 76 | V | DRIVER DOOR ANT- |
| 77 | LG | DRIVER DOOR ANT+ |
| 78 | L | ROOM ANT 1- |
| 79 | R | ROOM ANT 1+ |
| 80 | GR | NATS ANT AMP |
| 81 | W | NATS ANT AMP |
| 82 | R | IGN RELAY (F/B) CONT |
| 83 | GR | KYLS ENT RECEIVER (FRONT) COMM |
| 87 | BR | COMBI SW INPUT 5 |
| 88 | V | COMBI SW INPUT 3 |
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL |
| 93 | V | ON IND |
| 95 | O | ACC RELAY CONT |
| 96 | Y | A/T SHIFT SELECTOR POWER SUPPLY |
| 99 | R | SHIFT P/CLUTCH PEDAL POS SW |
| 100 | GR | PASSENGER DOOR REQUEST SW |
| 101 | Y | DRIVER DOOR REQUEST SW |
| 102 | O | BLOWER FAN MOTOR RELAY CONT |
| 103 | LG | KYLS ENT RECEIVER (FRONT) PWR SUPPLY |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 4 |
| 109 | Y | COMBI SW INPUT 2 |
| 110 | P | HAZARD SW |
| 129 | O | TRUNK LID OPENER CANCEL SW |
| 130 | L | REAR DEFOGGER SW |
| 132 | V | P/W SW & SOFT TOP CLU COMM [Roadster models] |
| 132 | Y | POWER WINDOW SW COMM [Coupe models] |
| 133 | G | PUSH BUTTON IGNITION SW ILL POWER |
| 134 | GR | LOCK IND |
| 137 | P | RECEIVER &SENSOR GND |
| 138 | V | RECEIVER & SENSOR POWER SUPPLY |
| 139 | L | TIRE PRESS RECEIV COMM |
| 140 | G | P/N POSITION |
| 141 | Y | SECURITY INDICATOR |
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 150 | GR | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

| | |
|---|---|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 113 | O | - |
| 114 | R | OPTICAL SENSOR |
| 115 | O | CLUTCH INTERLOCK SW |
| 116 | SB | - |
| 118 | P | STOP LAMP SW 1 |
| 119 | SB | STOP LAMP SW 2 |
| 121 | R | DR DOOR UNLOCK SENSOR |
| 123 | W | KEY SLOT SW |
| 124 | LG | IGN F/B |
| | | PASSENGER DOOR SW |

JRLWD7873GB

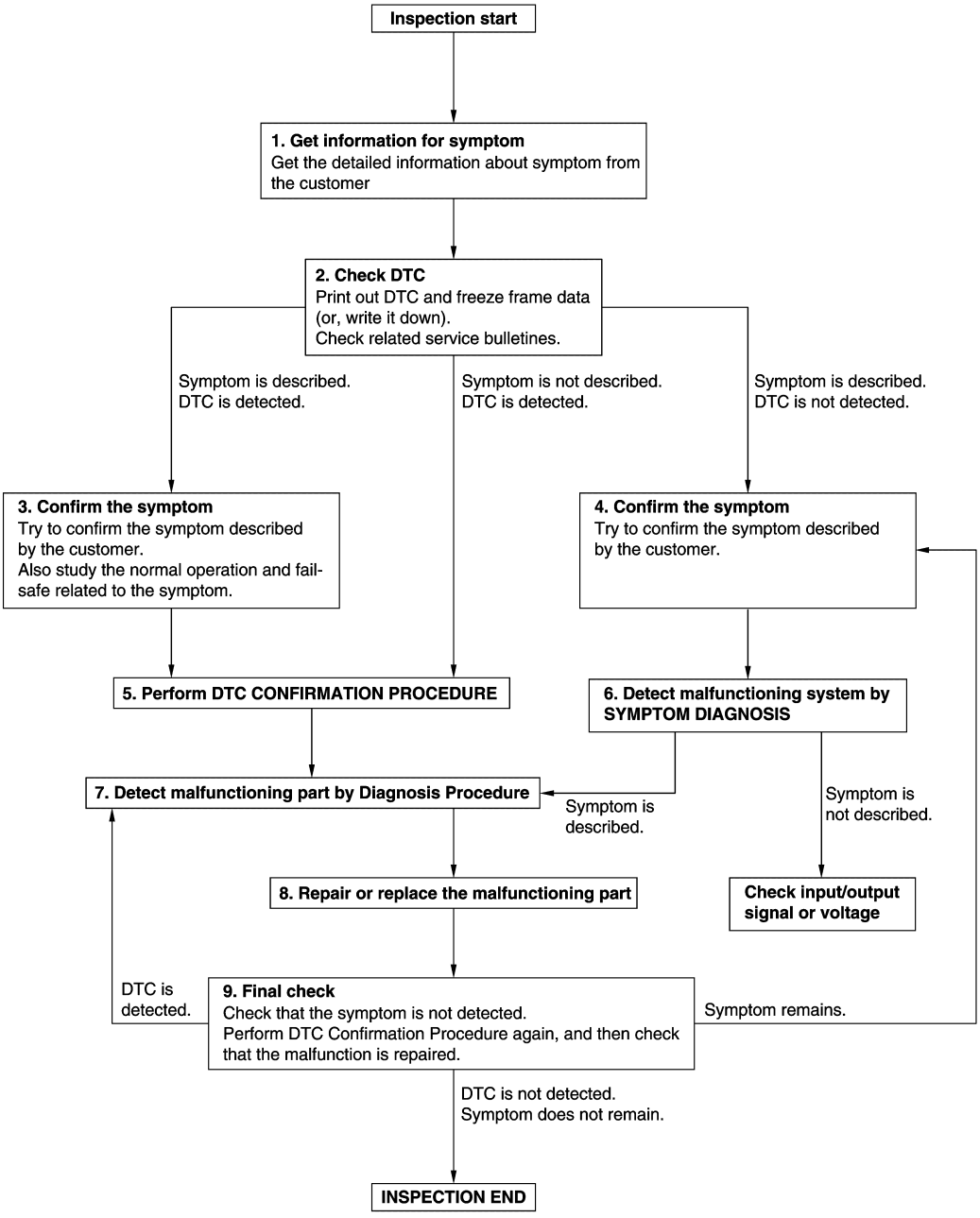
# BASIC INSPECTION

## DIAGNOSIS AND REPAIR WORK FLOW

### Work Flow

INFOID:0000000010840555

#### OVERALL SEQUENCE




JMKIA8652GB

#### DETAILED FLOW

## 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 DTC INSPECTION PRIORITY CHART, 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-44, "Intermittent Incident".

## 6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.
NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

## 7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check according to GI-44, "Intermittent Incident".

## 8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis 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.

# DTC/CIRCUIT DIAGNOSIS

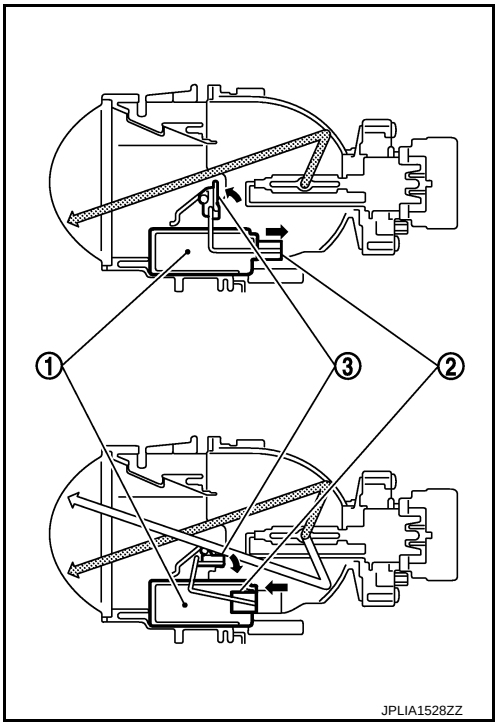
## HEADLAMP (HI) CIRCUIT

### Description

INFOID:0000000010840558

The high beam solenoid drives the mobile valve shade. And the mobile valve shade switches the high beam and low beam of headlamp.

- When the headlamp high relay is turned ON, magnetic force is applied to the high beam solenoid (1) by a current. The mobile valve shade (3) is switched to the high beam position through the actuator rod (2).
- When the headlamp high relay is turned OFF, the current stops. The mobile valve shade returns to the low beam position automatically.



JPLIA1528ZZ

### Component Function Check

INFOID:0000000010840559

#### 1. CHECK HEADLAMP (HI) OPERATION

IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the headlamp switches to the high beam.

CONSULT ACTIVE TEST

1. Select “EXTERNAL LAMPS” of IPDM E/R active test item.
2. With operating the test items, check that the headlamp switches to the high beam.

**Hi : Headlamp switches to the high beam.**
**Off : Headlamp OFF**

**NOTE:**
HI/LO is repeated 1 second each when using the IPDM E/R auto active test.

Does the headlamp switch to the high beam?

YES >> Headlamp (HI) circuit is normal.
NO >> Refer to EXL-75, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000010840560

#### 1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

CONSULT ACTIVE TEST

1. Turn the ignition switch OFF.
2. Disconnect the front combination lamp connector.
3. Turn the ignition switch ON.
4. Select “EXTERNAL LAMPS” of IPDM E/R active test item.

5. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | | Test item | Voltage (Approx.) |
|---|---|---|---|---|---|
| (+) | | | (–) | | |
| IPDM E/R | | | | EXTERNAL LAMPS | |
| Connector | | Terminal | | | |
| RH | E8 | 89 | Ground | Hi | Battery voltage |
| | | | | Off | 0 V |
| LH | | 90 | | Hi | Battery voltage |
| | | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 2.
NO >> GO TO 3.

## 2.CHECK HEADLAMP (HI) OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

| IPDM E/R | | | Front combination lamp | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E8 | 89 | E28 | 7 | Existed |
| LH | | 90 | E58 | 7 | |

Does continuity exist?

YES >> Replace the front combination lamp.
NO >> Repair the harnesses or connectors.

## 3.CHECK HEADLAMP (HI) FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuses are not fusing.

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Headlamp HI (RH) | IPDM E/R | #55 | 10 A |
| Headlamp HI (LH) | IPDM E/R | #54 | 10 A |

Is the fuse fusing?

YES >> GO TO 4.
NO >> Replace IPDM E/R.

## 4.CHECK FRONT COMBINATION LAMP (HI) SHORT CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check continuity between the IPDM E/R harness connector terminal and the ground.

| IPDM E/R | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E8 | 89 | | Not existed |
| LH | | 90 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors. And then replace the fuse.
NO >> Replace the fuse. (Replace IPDM E/R if the fuse is fusing again.)

# HEADLAMP (LO) CIRCUIT

## Description

INFOID:0000000010840561

Headlamp (LO) circuit is connected to HID control unit integrated in the headlamp. Headlamp (LO) circuit turns xenon headlamp ON.
For the details of HID control unit and the xenon headlamp, refer to EXL-79, "Description".

## Component Function Check

INFOID:0000000010840562

### 1.CHECK HEADLAMP (LO) OPERATION

IPDM E/R AUTO ACTIVE TEST
1. Start IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the headlamp is turned ON.

CONSULT ACTIVE TEST
1. Select “EXTERNAL LAMPS” of IPDM E/R active test item.
2. With operating the test items, check that the headlamp is turned ON.

**Lo : Headlamp ON**
**Off : Headlamp OFF**

Is the headlamp turned ON?

YES >> Headlamp (LO) is normal.
NO >> Refer to EXL-77, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840563

### 1.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

CONSULT ACTIVE TEST
1. Turn the ignition switch OFF.
2. Disconnect the front combination lamp connector.
3. Turn the ignition switch ON.
4. Select “EXTERNAL LAMPS” of IPDM E/R active test item.
5. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | | Test item | Voltage (Approx.) |
|---|---|---|---|---|---|
| (+) | | | (–) | | |
| IPDM E/R | | | | EXTERNAL LAMPS | |
| Connector | | Terminal | | | |
| RH | E8 | 83 | Ground | Lo | Battery voltage |
| | | | | Off | 0 V |
| LH | | 84 | | Lo | Battery voltage |
| | | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 2.
NO >> GO TO 3.

### 2.CHECK HEADLAMP (LO) OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

| IPDM E/R | | | Front combination lamp | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E8 | 83 | E28 | 5 | Existed |
| LH | | 84 | E58 | 5 | |

Does continuity exist?

YES >> GO TO 5.
NO >> Repair the harnesses or connectors.

## 3.CHECK HEADLAMP (LO) FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuses are not fusing.

| Unit | Lotion | Fuse No. | Capacity |
|---|---|---|---|
| Headlamp LO (RH) | IPDM E/R | #57 | 15 A |
| Headlamp LO (LH) | IPDM E/R | #56 | 15 A |

Is the fuse fusing?

YES >> GO TO 4.
NO >> Replace IPDM E/R.

## 4.CHECK HEADLAMP (LO) SHORT CIRCUIT

1. Disconnect IPDM E/R connector.
2. Check continuity between the IPDM E/R harness connector and the ground.

| IPDM E/R | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E8 | 83 | | Not existed |
| LH | | 84 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors. And then replace the fuse.
NO >> Replace the fuse. (Replace IPDM E/R if the fuse is fusing again.)

## 5.CHECK HEADLAMP GROUND OPEN CIRCUIT

Check continuity between the front combination lamp harness connector and the ground.

| Front combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E28 | 3 | | Existed |
| LH | E58 | 3 | | |

Does continuity exist?

YES >> Perform the xenon headlamp diagnosis. Refer to EXL-79, "Description".
NO >> Repair the harnesses or connectors.

# XENON HEADLAMP

## Description

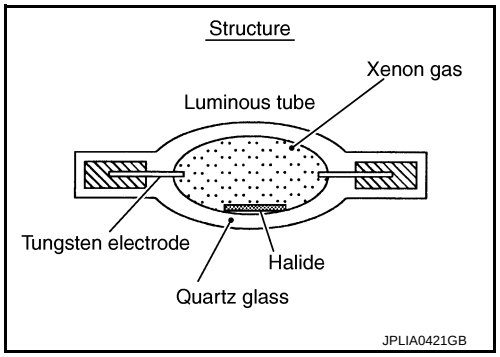
INFOID:0000000010840564

### OUTLINE

- The lamp light source is by the arch discharge by applying high voltage into the xenon gas-filled bulb instead of the halogen bulb filament.
- Sight becomes more natural and brighter because the amount of light are gained adequately and the color of light is sunshine-like white.
- The xenon bulb drops the amount of light, repeats blinking, and illuminates in red if the bulb reaches the service life.

### ILLUMINATION PRINCIPLE

1. Discharging starts in high voltage pulse between bulb electrodes.
2. Xenon gas is activated by current between electrodes. Pale light is emitted.
3. The luminous tube (bulb) temperature elevates. Evaporated halide is activated by discharge. The color of light changes into white.




**NOTE:**

- Brightness and the color of light may change slightly immediately after the headlamp turned ON until the xenon bulb becomes stable. This is not malfunction.
- Illumination time lag may occur between right and left. This is not malfunction.

### PRECAUTIONS FOR TROUBLE DIAGNOSIS

Representative malfunction examples are; “Light does not turn ON”, “Light blinks”, and “Brightness is inadequate”. The cause often be the xenon bulb. Such malfunctions, however, are occurred occasionally by HID control unit malfunction or lamp case malfunction. Specify the malfunctioning part with diagnosis procedure.

**WARNING:**

- **Never touch the harness, HID control unit, the inside and metal part of lamp when turning the headlamp ON or operating the light switch.**
- **Never work with wet hands.**

**CAUTION:**

- **Never perform HID control unit circuit diagnosis with a circuit tester or an equivalent.**
- **Temporarily install the headlamp on the vehicle. Connect the battery to the connector (vehicle side) when checking ON/OFF status.**
- **Disconnect the battery negative terminal before disconnecting the lamp socket connector or the harness connector.**
- **Check for fusing of the fusible link(s), open around connector, short, disconnection if the symptom is caused by electric error.**

**NOTE:**

- Turn the switch OFF once before turning ON, if the ON/OFF is inoperative.
- The xenon bulb drops the amount of light, repeats blinking, and illuminates in red if the bulb reaches the service life.

## Diagnosis Procedure

INFOID:0000000010840565

### 1. CHECK XENON BULB

Install the normal bulb to the applicable headlamp. Check that the xenon bulb is turned ON.

Is the headlamp turned ON?

YES >> Replace the xenon bulb.
NO >> GO TO 2.

### 2. CHECK HID CONTROL UNIT

Install the normal HID control unit to the applicable headlamp. Check that the lamp is turned ON.

Is the headlamp turned ON?

YES >> Replace HID control unit.
NO >> GO TO 3.

## 3. CHECK XENON HEADLAMP HOUSING ASSEMBLY

Install the normal xenon headlamp housing assembly to the applicable headlamp. Check that the xenon headlamp is turned ON.

Is the headlamp turned ON?

YES >> Replace the front combination lamp. (Xenon headlamp housing voltage converter malfunctions.)
NO >> Xenon headlamp is normal. Check the headlamp control system.

# DAYTIME RUNNING LIGHT CIRCUIT

## Component Function Check

INFOID:0000000010840566

### 1.CHECK DAYTIME RUNNING LIGHT OPERATION

IPDM E/R AUTO ACTIVE TEST
1. Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the daytime running light is turned ON.

CONSULT ACTIVE TEST
1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
2. With operating the test items, Check that the daytime running light is turned ON.

**Fog : Daytime running light ON**
**Off : Daytime running light OFF**

Is the daytime running light turned ON?

YES >> Daytime running light circuit is normal.
NO >> Refer to EXL-81, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840567

### 1.CHECK DAYTIME RUNNING LIGHT FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuses are not fusing.

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Daytime running light | IPDM E/R | #58 | 15 A |

Is the fuse fusing?

YES >> GO TO 2.
NO >> GO TO 3.

### 2.CHECK DAYTIME RUNNING LIGHT SHORT CIRCUIT

1. Disconnect IPDM E/R connector and the daytime running light connector.
2. Check continuity between the IPDM E/R harness connector and the ground.

| IPDM E/R | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E8 | 86 | | Not existed |
| LH | | 87 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors. And then replace the fuse.
NO >> Replace the fuse. (Replace IPDM E/R if the fuse is fusing again.)

### 3.CHECK DAYTIME RUNNING LIGHT UNIT

Check the applicable daytime running light unit.

Is the bulb normal?

YES >> GO TO 4.
NO >> Replace the daytime running light unit.

### 4.CHECK DAYTIME RUNNING LIGHT OUTPUT VOLTAGE

CONSULT ACTIVE TEST
1. Disconnect the daytime running light connector.
2. Turn the ignition switch ON.
3. Select "EXTERNAL LAMPS" of IPDM E/R active test item.

4. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | | Test item | Voltage (Approx.) |
|---|---|---|---|---|---|
| (+) | | | (–) | | |
| IPDM E/R | | | | EXTERNAL LAMPS | |
| Connector | | Terminal | | | |
| RH | E8 | 86 | Ground | Fog | Battery voltage |
| | | | | Off | 0 V |
| LH | | 87 | | Fog | Battery voltage |
| | | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 5.
NO >> Replace IPDM E/R.

## 5.CHECK DAYTIME RUNNING LIGHT OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between the IPDM E/R harness connector and the daytime running light harness connector.

| IPDM E/R | | | Daytime running light | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E8 | 86 | E79 | 1 | Existed |
| LH | | 87 | E78 | 1 | |

Does continuity exist?

YES >> GO TO 6.
NO >> Repair the harnesses or connectors.

## 6.CHECK DAYTIEM RUNNING LIGHT GROUND CIRCUIT OPEN CIRCUIT

Check continuity between the front fog lamp harness connector and the ground.

| Daytime running light | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E79 | 2 | | Existed |
| LH | E78 | 2 | | |

Does continuity exist?

YES >> Refer to GI-44, "Intermittent Incident".
NO >> Repair the harnesses or connectors.

# PARKING LAMP CIRCUIT

## Component Function Check

INFOID:0000000010840568

### 1.CHECK PARKING LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST
1. Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the parking lamp is turned ON.

CONSULT ACTIVE TEST
1. Select “EXTERNAL LAMPS” of IPDM E/R active test item.
2. With operating the test items, check that the parking lamp is turned ON.

**TAIL : Parking lamp ON**
**Off : Parking lamp OFF**

Is the parking lamp turned ON?

YES >> Parking lamp circuit is normal.
NO >> Refer to EXL-83, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840569

### 1.CHECK PARKING LAMP FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuse is not fusing.

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| • Parking lamp<br>• Front side marker lamp | IPDM E/R | #52 | 10 A |

Is the fuse fusing?

YES >> GO TO 2.
NO >> GO TO 3.

### 2.CHECK PARKING LAMP SHORT CIRCUIT

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

| IPDM E/R | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E9 | 91 | | Not existed |
| LH | | 92 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors. And then replace the fuse.
NO >> Replace the fuse. (Replace IPDM E/R if fusing is found again.)

### 3.CHECK PARKING LAMP BULB AND FRONT SIDE MARKER LAMP

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 4.
NO >> Replace the bulb.

### 4.CHECK PARKING LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST
1. Disconnect the front combination lamp connector.
2. Turn the ignition switch ON.
3. Select “EXTERNAL LAMPS” of IPDM E/R active test item.

4. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | | Test item | Voltage (Approx.) |
|---|---|---|---|---|---|
| (+) | | | (–) | | |
| IPDM E/R | | | | EXTERNAL LAMPS | |
| Connector | | Terminal | | | |
| RH | E9 | 91 | Ground | TAIL | Battery voltage |
| | | | | Off | 0 V |
| LH | | 92 | | TAIL | Battery voltage |
| | | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 5.
NO >> Replace IPDM E/R.

## 5.CHECK PARKING LAMP OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

| IPDM E/R | | | Front combination lamp | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E9 | 91 | E28 | 8 | Existed |
| LH | | 92 | E58 | 8 | |

Does continuity exist?

YES >> GO TO 6.
NO >> Repair the harnesses or connectors.

## 6.CHECK PARKING LAMP GROUND OPEN CIRCUIT

Check continuity between the front combination lamp harness connector and the ground.

| Front combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E28 | 4 | | Existed |
| LH | E58 | 4 | | |

Does continuity exist?

YES >> Replace the front combination lamp.
NO >> Repair the harnesses or connectors.

# TURN SIGNAL LAMP CIRCUIT

## Description

INFOID:0000000010840570

BCM performs the high 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:0000000010840571

### 1.CHECK TURN SIGNAL LAMP

CONSULT ACTIVE TEST

1. Select “FLASHER” of BCM (FLASHER) active test item.
2. With operating the test items, check that the turn signal lamp turn ON.

**LH : Turn signal lamp LH ON**
**RH : Turn signal lamp RH ON**
**Off : The turn signal lamp OFF**

Does the turn signal lamp blink?

YES >> Turn signal lamp circuit is normal.
NO >> Refer to EXL-85, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840572

### 1.CHECK TURN SIGNAL LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 2.
NO >> Replace the bulb.

### 2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST

1. Turn the ignition switch OFF.
2. Disconnect the front combination lamp connector, side turn signal lamp connector or the rear combination lamp connector.
3. Turn the ignition switch ON.
4. Select “FLASHER” of BCM (FLASHER) active test item.
5. With operating the turn signal switch, check the voltage between the BCM harness connector and the ground.

Front/side

| Terminals | | | | Test item | Voltage (Approx.) |
|---|---|---|---|---|---|
| (+) | | | (–) | | |
| BCM | | | | FLASHER | |
| Connector | | Terminal | | | |
| RH | M119 | 17 | Ground | RH | 12 V |
| | | | | Off | 0 V |
| LH | | 18 | | LH | 12 V |
| | | | | Off | 0 V |

Rear

| Terminals | | | | Test item | Voltage (Approx.) |
|---|---|---|---|---|---|
| (+) | | | (–) | | |
| BCM | | | | FLASHER | |
| Connector | | Terminal | | | |
| RH | M120 | 20 | Ground | RH | 12 V |
| | | | | Off | 0 V |
| LH | | 25 | | LH | 12 V |
| | | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 3.
NO >> Replace BCM.

## 3.CHECK TURN SIGNAL LAMP OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect BCM connector.
3. Check the continuity between the BCM harness connector and the front combination lamp, side turn signal lamp or rear combination lamp harness connector.

Front turn signal lamp

| BCM | | | Front combination lamp | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | M119 | 17 | E28 | 6 | Existed |
| LH | | 18 | E58 | 6 | |

Side turn signal lamp

| BCM | | | Side turn signal lamp | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | M119 | 17 | E24 | 1 | Existed |
| LH | | 18 | E55 | 1 | |

Rear turn signal lamp

| BCM | | | Rear combination lamp | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | M120 | 20 | B67 | 4 | Existed |
| LH | | 25 | B60 | 4 | |

Does continuity exist?

YES >> GO TO 4.
NO >> Repair the harnesses or connectors.

## 4.CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector and the ground.

Front/side

| BCM | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | M119 | 17 | | Not existed |
| LH | | 18 | | |

Rear

| BCM | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | M120 | 20 | | Not existed |
| LH | | 25 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> GO TO 5.

## 5. CHECK TURN SIGNAL LAMP GROUND OPEN CIRCUIT

Check the continuity between the front combination lamp, side turn signal lamp or rear combination lamp and the ground.

Front turn signal lamp

| Front combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E28 | 4 | | Existed |
| LH | E58 | 4 | | |

Side turn signal lamp

| Side turn signal lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E24 | 2 | | Existed |
| LH | E55 | 2 | | |

Rear turn signal lamp

| Rear combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | B67 | 3 | | Existed |
| LH | B60 | 3 | | |

Does continuity exist?

YES >> Replace the front combination lamp, side turn signal lamp or rear combination lamp.
NO >> Repair the harnesses or connectors.

# OPTICAL SENSOR

## Description

INFOID:0000000010840573

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

## Component Function Check

INFOID:0000000010840574

### 1.CHECK OPTICAL SENSOR SIGNAL BY CONSULT

CONSULT DATA MONITOR
1. Turn the ignition switch ON.
2. Select “OPTICAL SENSOR” of BCM (HEADLAMP) data monitor item.
3. Turn the 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 |

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

Is the item status normal?

YES >> Optical sensor is normal.
NO >> Refer to EXL-88, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840575

### 1.CHECK OPTICAL SENSOR POWER SUPPLY INPUT

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

| Terminals | | | Voltage (Approx.) |
|---|---|---|---|
| (+) | | (–) | |
| Optical sensor | | Ground | |
| Connector | Terminal | | |
| M94 | 1 | | 5 V |

Is the measurement value normal?

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

### 2.CHECK OPTICAL SENSOR GROUND INPUT

Check the voltage between the optical sensor harness connector and the ground.

| Terminals | | | Voltage (Approx.) |
|---|---|---|---|
| (+) | | (–) | |
| Optical sensor | | Ground | |
| Connector | Terminal | | |
| M94 | 3 | | 0 V |

Is the measurement value normal?

YES >> GO TO 3.
NO >> GO TO 6.

### 3.CHECK OPTICAL SENSOR SIGNAL OUTPUT

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

| Terminals | | | Condition | Voltage (Approx.) |
|---|---|---|---|---|
| (+) | | (–) | | |
| Optical sensor | | Ground | Optical sensor | |
| Connector | Terminal | | | |
| M94 | 2 | | When illuminating | 3.1 V or more * |
| | | | 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 measurement value normal?

YES >> GO TO 7.
NO >> Replace the optical sensor.

## 4. CHECK OPTICAL SENSOR OPEN CIRCUIT

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

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M94 | 1 | M123 | 138 | Existed |

Does continuity exist?

YES >> GO TO 5.
NO >> Repair the harnesses or connectors.

## 5. CHECK OPTICAL SENSOR SHORT CIRCUIT

Check the continuity between the optical sensor harness connector and the ground.

| Optical sensor | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M94 | 1 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace BCM.

## 6. CHECK OPTICAL SENSOR GROUND OPEN CIRCUIT

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

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M94 | 3 | M123 | 137 | Existed |

Does continuity exist?

YES >> Replace BCM.
NO >> Repair the harnesses or connectors.

## 7. CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

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

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M94 | 2 | M123 | 113 | Existed |

Does continuity exist?

YES >> GO TO 8.
NO >> Repair the harnesses or connectors.

## 8. CHECK OPTICAL SENSOR SHORT CIRCUIT

Check the continuity between the optical sensor harness connector and the ground.

| Optical sensor | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M94 | 2 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace BCM.

# HAZARD SWITCH

## Component Function Check

INFOID:0000000010840576

### 1.CHECK HAZARD SWITCH SIGNAL BY CONSULT

CONSULT DATA MONITOR
1. Turn the ignition switch ON.
2. Select “HAZARD SW” of BCM (FLASHER) data monitor item.
3. With operating the hazard switch, check the monitor status.

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

Is the item status normal?

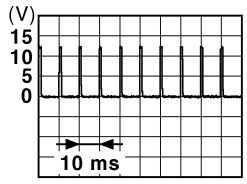
YES >> Hazard switch circuit is normal.
NO >> Refer to EXL-91, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840577

### 1.CHECK HAZARD SWITCH SIGNAL INPUT

With operating the hazard switch, check the voltage between the BCM harness connector and the ground.

| Terminals | | | Condition | Voltage (Approx.) |
|---|---|---|---|---|
| (+) | | (–) | | |
| BCM | | | Hazard switch | |
| Connector | Terminal | | | |
| M122 | 110 | Ground | ON | 0 V |
| | | | OFF |  |



JPMIA0012GB

Is the measurement value normal?

YES >> Replace BCM.
NO >> GO TO 2.

### 2.CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

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

| Hazard switch | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M144 | 2 | M122 | 110 | Existed |

Does continuity exist?

YES >> GO TO 3.
NO >> Repair the harnesses or connectors.

### 3.CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

Check continuity between the hazard switch harness connector and the ground.

| Hazard switch | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M144 | 2 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> GO TO 4.

## 4. CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

Check continuity between the hazard switch harness connector and the ground.

| Hazard switch | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M144 | 1 | | Existed |

Does continuity exist?

YES >> Replace the hazard switch.
NO >> Repair the harnesses or connectors.

# TAIL LAMP CIRCUIT

## Component Function Check

INFOID:0000000010840578

### 1.CHECK TAIL LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST
1. Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the tail lamp is turned ON.

CONSULT ACTIVE TEST
1. Select “EXTERNAL LAMPS” of IPDM E/R active test item.
2. With operating the test items, check that the tail lamp is turned ON.

**TAIL : Tail lamp ON**
**Off : Tail lamp OFF**

Is the tail lamp turned ON?

YES >> Tail lamp circuit is normal.
NO >> Refer to EXL-93, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840579

### 1.CHECK TAIL LAMP FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuses are not fusing.

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| • Tail lamp<br>• Rear side marker lamp<br>• License plate lamp | IPDM E/R | #53 | 10 A |

Is the fuse fusing?

YES >> Repair the malfunctioning part before replacing the fuse.
NO >> GO TO 2.

### 2.CHECK TAIL LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST
1. Disconnect the rear combination lamp connector.
2. Turn the ignition switch ON.
3. Select “EXTERNAL LAMPS” of IPDM E/R active test item.
4. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | Test item | Voltage (Approx.) |
|---|---|---|---|---|
| (+) | | (–) | | |
| IPDM E/R | | Ground | EXTERNAL LAMPS | |
| Connector | Terminal | | | |
| E5 | 7 | | TAIL | Battery voltage |
| | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 3.
NO >> Replace IPDM E/R.

### 3.CHECK TAIL LAMP OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect IPDM E/R connector.

3. Check continuity between the IPDM E/R harness connector and the rear combination lamp harness connector.

| IPDM E/R | | | Rear combination lamp | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E5 | 7 | B67 | 2 | Existed |
| LH | | | B60 | 2 | |

Does continuity exist?

YES >> GO TO 4.
NO >> Repair the harnesses or connectors.

## 4. CHECK TAIL LAMP GROUND OPEN CIRCUIT

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

| Rear combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | B67 | 3 | | Existed |
| LH | B60 | 3 | | |

Does continuity exist?

YES >> Replace the rear combination lamp.
NO >> Repair the harnesses or connectors.

# LICENSE PLATE LAMP CIRCUIT

## Component Function Check

INFOID:0000000010840580

**NOTE:**
Check the tail lamp circuit if the tail lamp and the license plate lamp are not turned ON.

### 1.CHECK LICENSE PLATE LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST
1. Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the license plate lamp is turned ON.

CONSULT ACTIVE TEST
1. Select “EXTERNAL LAMPS” of IPDM E/R active test item.
2. With operating the lighting switch, check that the license plate lamp is turned ON.

**TAIL : License plate lamp ON**
**Off : License plate lamp OFF**

Is the license plate lamp turned ON?

YES >> License plate lamp circuit is normal.
NO >> Refer to EXL-95, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840581

### 1.CHECK LICENSE PLATE LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 2.
NO >> Replace the bulb.

### 2.CHECK LICENSE PLATE LAMP OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect IPDM E/R connector and the license plate lamp connector.
3. Check continuity between the IPDM E/R harness connector and the license plate lamp harness connector.

| IPDM E/R | | | License plate lamp | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E5 | 7 | B153 | 2 | Existed |
| LH | | | B152 | 2 | |

Does continuity exist?

YES >> GO TO 3.
NO >> Repair the harnesses or connectors.

### 3.CHECK LICENSE PLATE LAMP GROUND OPEN CIRCUIT

Check continuity between the license plate lamp harness connector and the ground.

| License plate lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | B153 | 1 | | Existed |
| LH | B152 | 1 | | |

Does continuity exist?

YES >> Replace the license plate lamp.
NO >> Repair the harnesses or connectors.

# REAR FOG LAMP CIRCUIT

## Component Function Check

INFOID:0000000010840582

### 1.CHECK REAR FOG LAMP OPERATION

CONSULT ACTIVE TEST
1. Select “RR FOG LAMP” of BCM (HEAD LAMP) active test item.
2. With operating the test items, check that the rear fog lamp is turned ON.

**On : Rear fog lamp ON**
**Off : Rear fog lamp OFF**

Is rear fog lamp turned ON?

YES >> Rear fog lamp circuit is normal.
NO >> Refer to EXL-96, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000010840583

### 1.CHECK REAR FOG LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 2.
NO >> Replace the bulb.

### 2.CHECK REAR FOG LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST
1. Turn the ignition switch OFF.
2. Disconnect the rear fog lamp connector.
3. Turn the ignition switch ON.
4. Select “RR FOG LAMP” of BCM (HEAD LAMP) active test item.
5. With operating the test items, check voltage between BCM harness connector and the ground.

| Terminals | | | Test item | Voltage (Approx.) |
|---|---|---|---|---|
| (+) | | (–) | | |
| BCM | | Ground | RR FOG LAMP | |
| Connector | Terminal | | | |
| M120 | 24 | | On | Battery voltage |
| | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 3.
NO >> Replace BCM.

### 3.CHECK REAR FOG LAMP OPEN CIRCUIT

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

| BCM | | Rear fog lamp | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M120 | 24 | B70 | 1 | Existed |

Does continuity exist?

YES >> GO TO 4.
NO >> Repair the harnesses or connectors.

## 4.CHECK REAR FOG LAMP SHORT CIRCUIT

Check for continuity between BCM harness connector and the ground.

| BCM | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M120 | 24 | | Not existed |

Does continuity exist?

YES >> GO TO 5.
NO >> Repair the harnesses or connectors.

## 5.CHECK REAR FOG LAMP GROUND OPEN CIRCUIT

Check for continuity between rear fog lamp harness connector and the ground.

| Rear fog lamp | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| B70 | 2 | | Existed |

Does continuity exist?

YES >> Replace the rear fog lamp.
NO >> Repair the harnesses or connectors.

# SYMPTOM DIAGNOSIS

## EXTERIOR LIGHTING SYSTEM SYMPTOMS

### Symptom Table

INFOID:0000000010840584

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

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Headlamp does not switch to the high beam. | One side | • Fuse<br>• Harness between IPDM E/R and the front combination lamp<br>• Front combination lamp (High beam solenoid)<br>• IPDM E/R | Headlamp (HI) circuit<br>Refer to EXL-75. |
| | Both sides | **Symptom diagnosis**<br>“BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM”<br>Refer to EXL-102. | |
| High beam indicator lamp is not turned ON. (Headlamp switches to the high beam.) | | Combination meter | • Combination meter<br>Data monitor “HI-BEAM IND”<br>• BCM (HEAD LAMP)<br>Active test “HEADLAMP” |
| Headlamp does not switch to the low beam. | One side | Front combination lamp (High beam solenoid) | — |
| | Both sides | • Combination switch<br>• Harness between the combination switch and BCM<br>• BCM | Combination switch<br>Refer to BCS-102. |
| | | High beam request signal<br>• BCM<br>• IPDM E/R | IPDM E/R<br>Data monitor “HL HI REQ” |
| | | IPDM E/R | — |
| Headlamp is not turned ON. | One side | • Fuse<br>• Xenon bulb<br>• Harness between IPDM E/R and the front combination lamp<br>• Front combination lamp (xenon headlamp)<br>• IPDM E/R | Headlamp (LO) circuit<br>Refer to EXL-77. |
| | Both sides | **Symptom diagnosis**<br>“BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON”<br>Refer to EXL-103. | |
| Headlamp is not turned OFF. | When the ignition switch is turned ON | | |
| | The ignition switch is turned OFF (After activating the battery saver). | IPDM E/R | — |
| Headlamp is not turned ON/OFF with the lighting switch AUTO. | | • Combination switch<br>• Harness between the combination switch and BCM<br>• BCM | Combination switch<br>Refer to BCS-102. |
| | | • Optical sensor<br>• Harness between the optical sensor and BCM<br>• BCM | Optical sensor<br>Refer to EXL-88. |

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Daytime running light is not turned ON. | | • Fuse<br>• IPDM E/R<br>• Daytime running light assembly<br>• Harness between IPDM E/R and the daytime running light<br>• BCM<br>• Combination meter | Daytime running light circuit<br>Refer to EXL-81. |
| Parking lamp is not turned ON. | | • Fuse<br>• Parking lamp bulb<br>• Harness between IPDM E/R and the front combination lamp<br>• Front combination lamp<br>• IPDM E/R | Parking lamp circuit<br>Refer to EXL-83. |
| Tail lamp is not turned ON. | | • Harness between IPDM E/R and the rear combination lamp<br>• Rear combination lamp | Tail lamp circuit<br>Refer to EXL-93. |
| License plate lamp is not turned ON. | | • Harness between IPDM E/R and the license plate lamp<br>• License plate lamp | License plate lamp circuit<br>Refer to EXL-95. |
| Tail lamp and license plate lamp are not turned ON. | | • Fuse<br>• Harness between IPDM E/R and the rear combination lamp<br>• IPDM E/R | Tail lamp circuit<br>Refer to EXL-93. |
| • Parking lamp, tail lamp and license plate lamp are not turned ON.<br>• Parking lamp, tail lamp and license plate lamp are not turned OFF.<br>(Each illumination is turned ON/OFF.) | | **Symptom diagnosis**<br>“PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON”<br>Refer to EXL-104. | |
| Turn signal lamp does not blink. | Indicator lamp is normal.<br>(The applicable side performs the high flasher activation.) | • Harness between BCM and each turn signal lamp<br>• Turn signal lamp bulb | Turn signal lamp circuit<br>Refer to EXL-85. |
| | Indicator lamp is included | • Combination switch<br>• Harness between the combination switch and BCM<br>• BCM | Combination switch<br>Refer to BCS-102. |
| Turn signal indicator lamp does not blink.<br>(The turn signal indicator lamp is normal.) | One side | Combination meter | — |
| | Both sides<br>(Always) | • Turn signal indicator lamp signal<br>- Combination meter<br>- BCM<br>• Combination meter | • Combination meter<br>Data monitor “TURN IND”<br>• BCM (FLASHER)<br>Active test “FLASHER” |
| | Both sides<br>(Only when activating the hazard warning lamp with the ignition switch OFF) | • Combination meter power supply and the ground circuit<br>• Combination meter | Combination meter<br>Power supply and the ground circuit<br>Refer to MWI-45. |
| • Hazard warning lamp does not activate.<br>• Hazard warning lamp continues activating.<br>(Turn signal is normal.) | | • Hazard switch<br>• Harness between the hazard switch and BCM<br>• BCM | Hazard switch<br>Refer to EXL-91. |

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Rear fog lamp is not turned ON. | Rear fog lamp indicator lamp is normal. | • Harness between BCM and rear fog lamp<br>• Rear fog lamp bulb<br>• BCM | Rear fog lamp circuit<br>Refer to EXL-96. |
| | Rear fog lamp indicator lamp is included. | • Rear fog lamp indicator lamp is included.<br>• Harness between combination switch and BCM<br>• BCM | Combination switch<br>Refer to BCS-102. |

# NORMAL OPERATING CONDITION

## Description

INFOID:0000000010840585

### XENON HEADLAMP

- Brightness and the color of light may change slightly immediately after turning the headlamp ON until the xenon bulb becomes stable. This is normal.
- Illumination time lag may occur between right and left. This is normal.

### 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 causes for the control difference. This is normal.

# BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

## Description

INFOID:0000000010840586

The headlamp (both sides) does not switch to the high beam when setting to the lighting switch HI or PASS.

## Diagnosis Procedure

INFOID:0000000010840587

### 1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-102, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

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

CONSULT DATA MONITOR
1. Select “HL HI REQ” of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| HL HI REQ | Lighting switch (2ND) | HI or PASS | On |
| | | Except for HI or PASS | Off |

Is the item status normal?

YES >> GO TO 3.
NO >> Replace BCM.

### 3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-75, "Description".

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R.
NO >> Repair or replace the malfunctioning part.

# BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

## Description

INFOID:0000000010840588

The headlamps (both sides) are not turned ON in any condition.

## Diagnosis Procedure

INFOID:0000000010840589

### 1.CHECK COMBINATION SWITCH

Check the combination switch. Refer to BCS-102, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

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

CONSULT DATA MONITOR
1. Select “HL LO REQ” of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| HL LO REQ | Lighting switch | 2ND | On |
| | | OFF | Off |

Is the item status normal?

YES >> GO TO 3.
NO >> Replace BCM.

### 3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to EXL-77, "Description".

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R.
NO >> Repair or replace the malfunctioning part.

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

## Description

INFOID:0000000010840590

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

## Diagnosis Procedure

INFOID:0000000010840591

### 1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-102, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

### 2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

CONSULT DATA MONITOR
1. Select “TAIL & CLR REQ” of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| TAIL & CLR REQ | Lighting switch | 1ST | On |
| | | OFF | Off |

Is the item status normal?

YES >> GO TO 3.
NO >> Replace BCM.

### 3.TAIL LAMP CIRCUIT INSPECTION

Check the tail lamp circuit. Refer to EXL-93, "Component Function Check".

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R.
NO >> Repair or replace the malfunctioning part.

# PERIODIC MAINTENANCE

## HEADLAMP AIMING ADJUSTMENT

### Description

INFOID:0000000010840592

#### PREPARATION BEFORE ADJUSTING

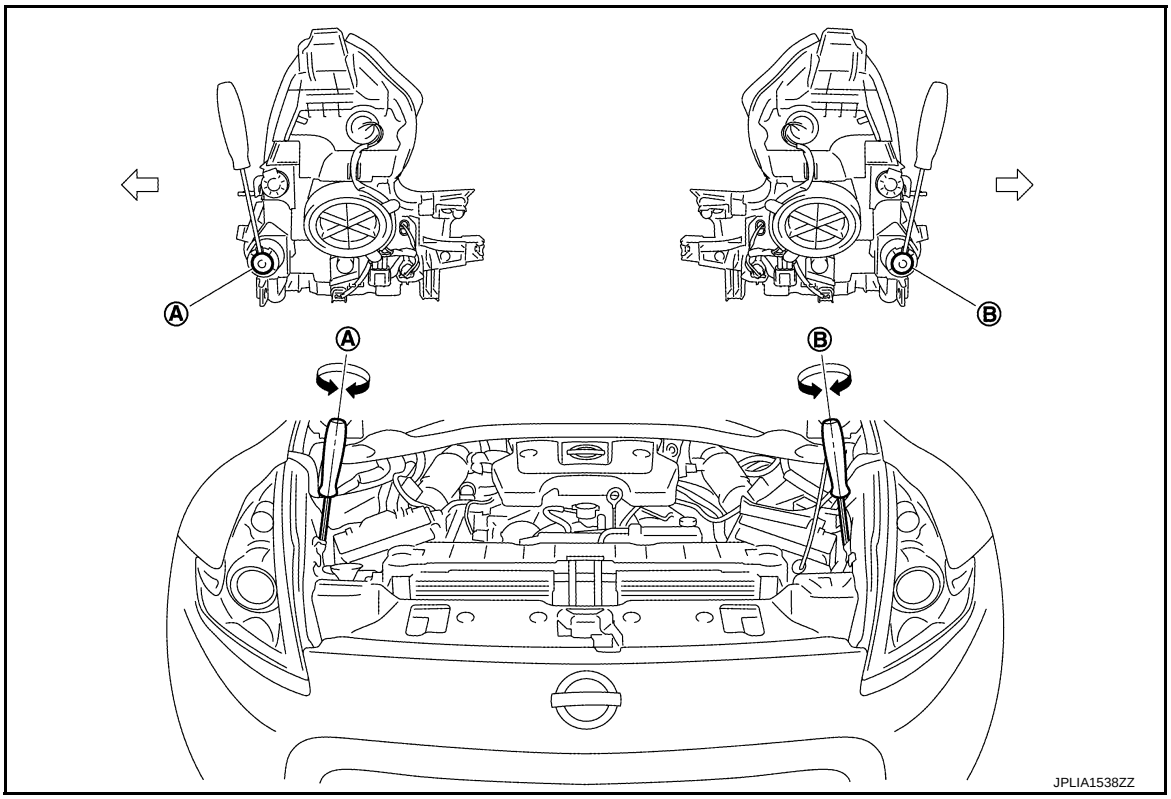
**NOTE:**

- For details, refer to the regulations in your own country.
- Perform aiming if the vehicle front body has been repaired and/or the headlamp assembly has been replaced.

Before performing aiming adjustment, check the following.

- Adjust the tire pressure to the specification.
- Fill with fuel, engine coolant and each oil.
- Maintain the unloaded vehicle condition. (Remove luggage from the passenger compartment and the luggage room.)
  **NOTE:**
  Do not remove the temporary tire, jack and on-vehicle tool.
- Wipe out dirt on the headlamp.
  **CAUTION:**
  **Never use organic solvent (thinner, gasoline etc.)**
- Ride alone on the driver seat.

#### AIMING ADJUSTMENT SCREW




A. Headlamp (RH) adjustment screw B. Headlamp (LH) adjustment screw

⇦: Vehicle center

| Adjustment screw | | Screw driver rotation | Facing direction |
|---|---|---|---|
| A | Headlamp (RH) | Clockwise | UP |
| | | Counterclockwise | DOWN |

| Adjustment screw | | Screw driver rotation | Facing direction |
|---|---|---|---|
| B | Headlamp (LH) | Clockwise | UP |
| | | Counterclockwise | DOWN |

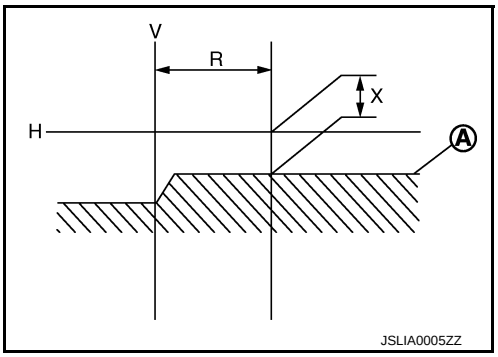
## Aiming Adjustment Procedure

INFOID:0000000010840593

1. Place the screen.
   **NOTE:**
   - Stop the vehicle facing the wall.
   - Place the board on a plain road vertically.
2. Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the headlamp center and the screen.
3. Start the engine. Turn the headlamp (LO) ON.
   **NOTE:**
   Shut off the headlamp light with the board to prevent from illuminating the adjustment screen.
   **CAUTION:**
   **Never cover the lens surface with a tape etc. The lens is made of resin.**
4. Measure the distance (X) between the horizontal center line of headlamp (H) and the cutoff line (A) within the light axis measurement range (R) from the vertical center line ahead of headlamp (V).

**Light axis measurement range (R)** : **350 ± 175 mm (13.78 ± 6.89 in)**

Low beam distribution on the screen

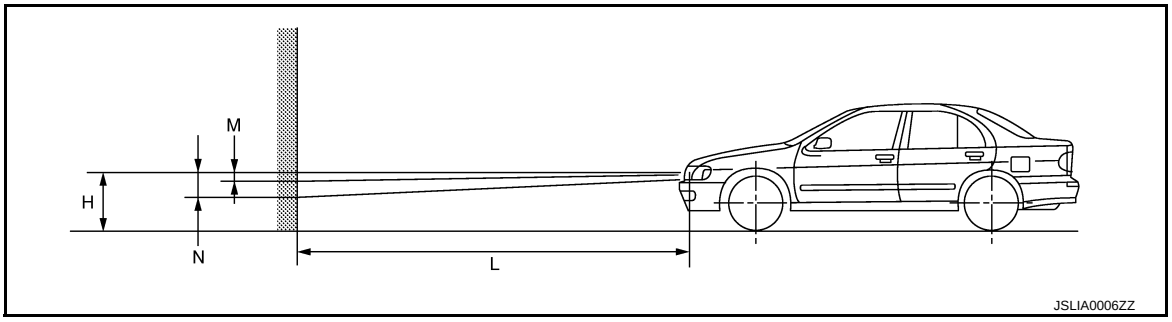



5. Adjust the cutoff line height with the aiming adjustment screw so as to enter in the adjustment range (M–N) according to the horizontal center line of headlamp (H).

unit: mm (in)

| Horizontal center line of headlamp (H) | Highest cutoff line height (M) | Lowest cutoff line height (N) |
|---|---|---|
| 700 (27.56) or less | 4 (0.16) | 30 (1.18) |
| 701(27.60) – 800 (31.50) | 4 (0.16) | 30 (1.18) |
| 801 (31.54) or more | 17 (0.67) | 44 (1.73) |

Side view




**Distance between the headlamp center and the screen (L)** : **10 m (32.8 ft)**

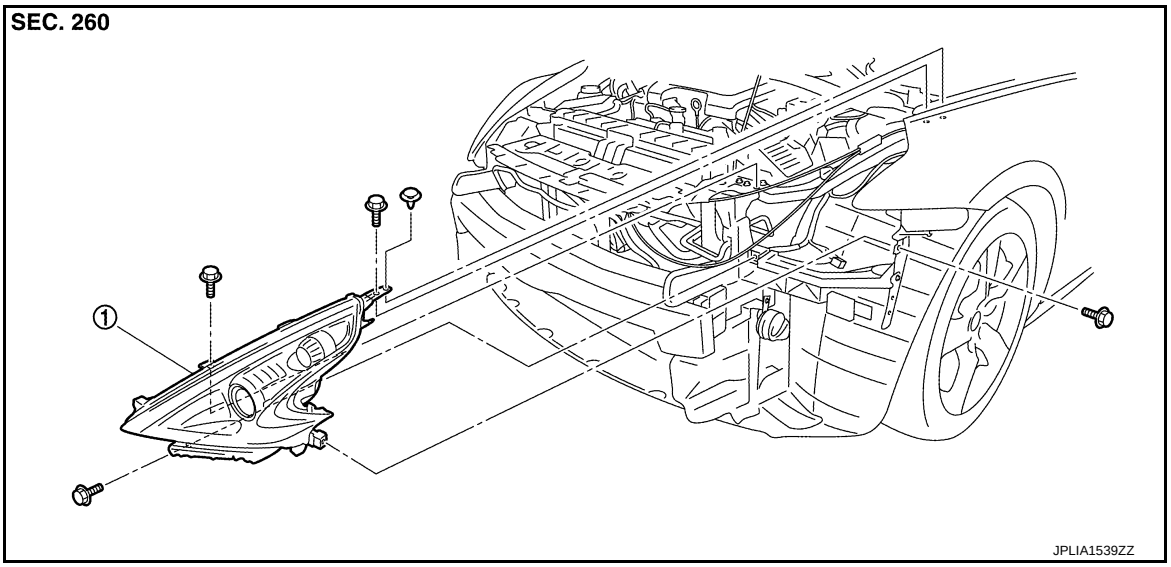
# REMOVAL AND INSTALLATION

## FRONT COMBINATION LAMP

### Exploded View

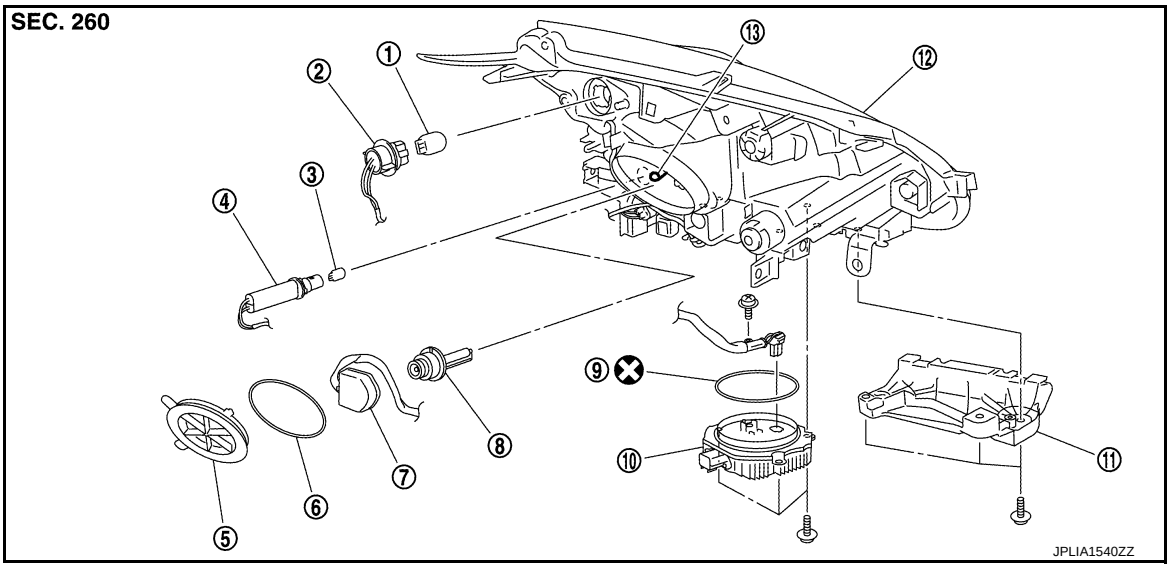
INFOID:0000000010840594

#### REMOVAL




1. Front combination lamp

#### DISASSEMBLY




1. Front turn signal lamp bulb
2. Front turn signal lamp bulb socket
3. Parking lamp bulb
4. Parking lamp bulb socket
5. Resin cap
6. Seal packing
7. Xenon bulb socket
8. Xenon bulb
9. Seal packing
10. HID control unit
11. Bumper bracket
12. Headlamp housing assembly
13. Retaining spring

⊗ : Always replace after every disassembly.

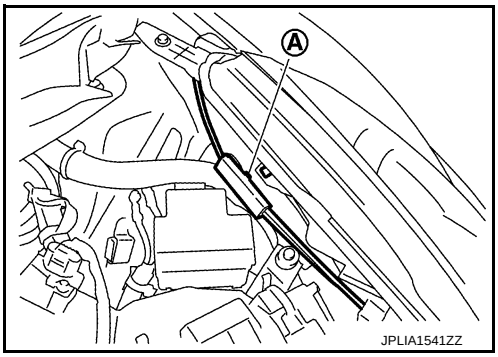
## Removal and Installation

INFOID:0000000010840595

**CAUTION:**
**Disconnect the battery negative terminal or remove the fuse.**

### REMOVAL

1. Remove the front bumper fascia. Refer to EXT-16, "Removal and Installation".
2. Remove the headlamp mounting bolts and clip.
3. Remove the holding clip (A)* and harness clip.
   *: Left side only
4. Pull out the headlamp assembly forward the vehicle.
5. Disconnect the connector before removing the headlamp housing assembly.




### INSTALLATION

Install in the reverse order of removal.
**NOTE:**
- After installation, perform aiming adjustment. Refer to EXL-105, "Description".
- After installation, check that headlamp lighting. Refer to EXL-109, "Inspection After Installation (HID Control Unit)".

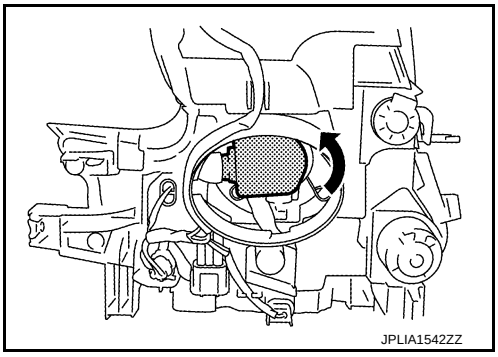
## Replacement

INFOID:0000000010840596

**CAUTION:**
- **Disconnect the battery negative terminal or remove the fuse.**
- **After installing the bulb, install the resin cap and the bulb socket securely for watertightness.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.**
- **Never touch bulb by hand while it is lit or right after being turned off.**
- **Never 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 BULB

1. Remove the fender protector. Keep a service area. Refer to EXT-35, "FENDER PROTECTOR : Removal and Installation".
2. Rotate the resin cap counterclockwise and unlock it.
3. Rotate the bulb socket counterclockwise and unlock it.
4. Remove the retaining spring lock. Remove the bulb from the headlamp housing assembly.
   **CAUTION:**
   **Never break the xenon bulb ceramic tube when replacing the bulb.**




### PARKING LAMP BULB

1. Remove the fender protector. Keep a service area. Refer to EXT-35, "FENDER PROTECTOR : Removal and Installation".
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

### FRONT TURN SIGNAL LAMP BULB

1. Remove the fender protector. Keep a service area. Refer to EXT-35, "FENDER PROTECTOR : Removal and Installation".
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

### SIDE MARKER LAMP

Replacement integral with front combination lamp. Refer to EXL-107, "Exploded View".

## Disassembly and Assembly

INFOID:0000000010840597

### DISASSEMBLY

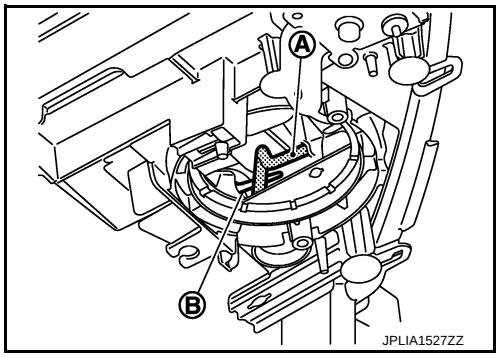
1. Rotate the resin cap counterclockwise and unlock it.
2. Rotate the xenon bulb socket counterclockwise and unlock it.
3. Remove the retaining spring lock. Remove the xenon bulb.
4. Remove the bumper bracket.
5. Remove the HID control unit installation screw.
6. Remove the screw. Disconnect the connector from HID control unit.
7. Pull out the xenon bulb socket from the headlamp housing assembly.
8. Rotate the parking lamp bulb socket counterclockwise and unlock it.
9. Remove the bulb from the parking lamp bulb socket.
10. Rotate the front turn signal lamp bulb socket counterclockwise and unlock it.
11. Remove the bulb from the front turn signal lamp bulb socket.

### ASSEMBLY

Assemble in the reverse order of disassembly.

**CAUTION:**

- **When xenon bulb socket installation, fix xenon bulb socket harness (A) to a protruding portion (B) in a headlamp housing surely.**




- **Install HID control unit securely.**
- **After installing the bulb, install the resin cap and the bulb socket securely for watertightness.**
- **Seal packing cannot be reused.**
- **After installation, check that headlamp lighting. Refer to EXL-109, "Inspection After Installation (HID Control Unit)".**

## Inspection After Installation (HID Control Unit)

INFOID:0000000010840598

**CAUTION:**

**Temporarily install the headlamp on the vehicle. Connect the battery to the connector (vehicle side) when checking ON/OFF status.**

### XENON HEADLAMP LIGHTING CHECK

When recycled HID Control Unit, check the following, when there is abnormality replace the HID Control Unit.

1. Xenon bulb is cold condition (turn OFF more than 10 minutes), and repetition does headlamp turned ON/OFF, check that a headlamp illuminated it surely.
2. Headlamp is turn ON until the xenon bulb becomes stable condition (for about 5 minutes) from cold condition, check that there are not on and off light, abnormality such as blinking.

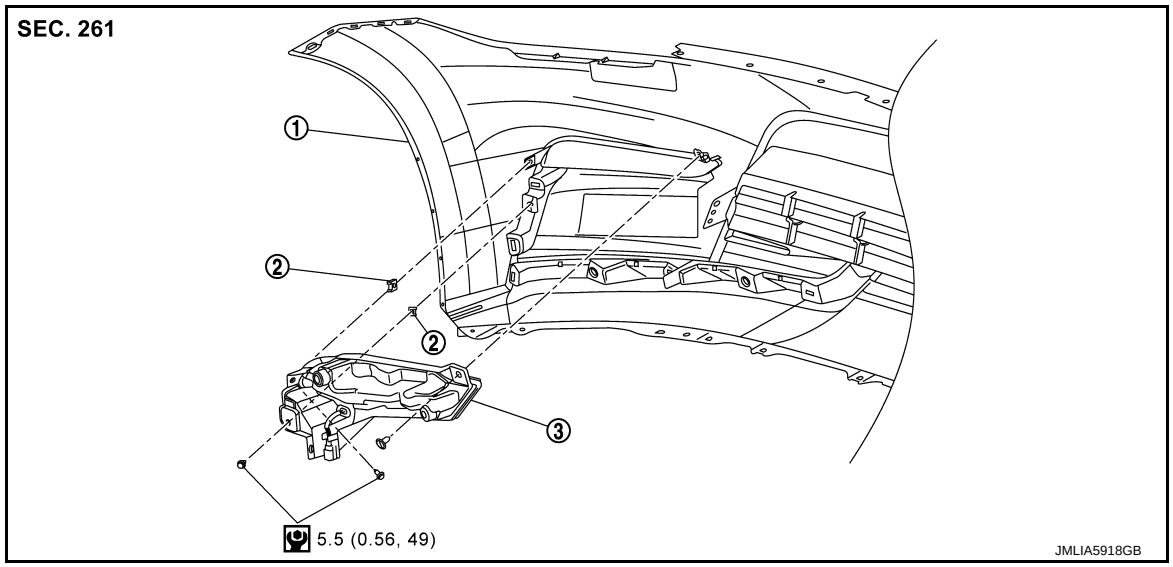
3. Xenon bulb is warm condition (turn ON more than 15 minutes and turn OFF for 1 minute), and repetition does headlamp turned ON/OFF, check that a headlamp illuminated it surely.
4. Headlamp is turn ON for about 30 minutes, check that there are not on and off light, abnormality such as blinking whether brightness of right and left does not have a difference.

# DAYTIME RUNNING LIGHT

## Exploded View

INFOID:0000000010840599

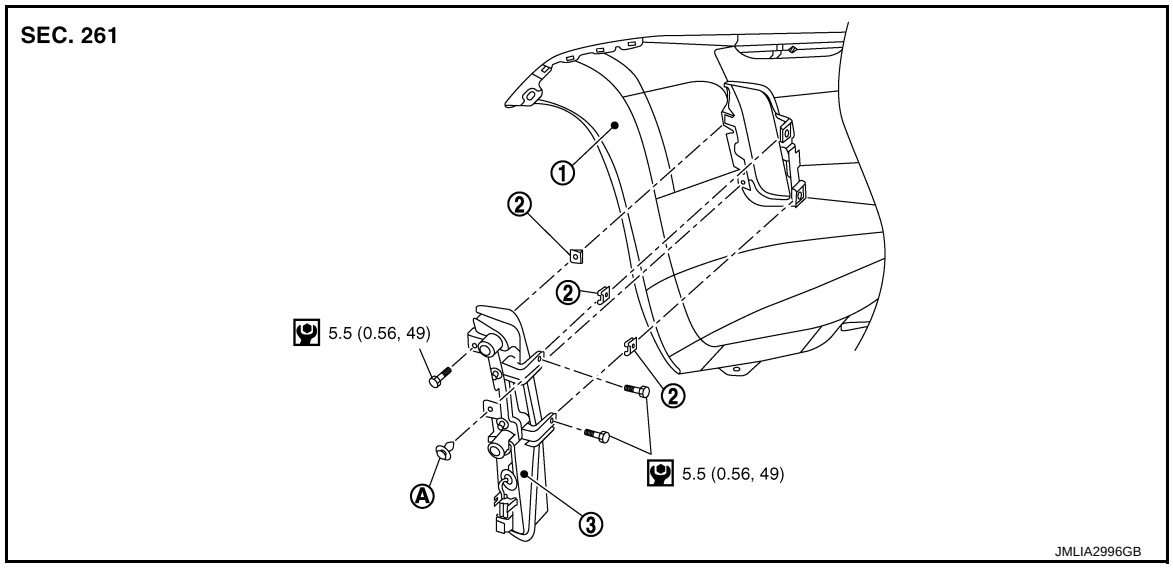
### FOR NISMO




1. Bumper fascia
2. U nut
3. Daytime running light

: N·m (kg-m, in-lb)

### EXCEPT FOR NISMO




1. Bumper fascia
2. U nut
3. Daytime running light
A. Clip

: N·m (kg-m, in-lb)

## Removal and Installation

INFOID:0000000010840600

**CAUTION:**
**Disconnect the battery negative terminal or remove the fuse to prevent electric leakage.**

### REMOVAL

For NISMO

1. Remove front fender protector to make work space. Refer to EXT-35, "FENDER PROTECTOR : Removal and Installation".
2. Disconnect daytime running light harness connector.
3. Remove daytime running light fixing screws, and then remove daytime running light.

Except For NISMO

1. Remove front fender protector to make work space. Refer to EXT-35, "FENDER PROTECTOR : Removal and Installation".
2. Disconnect daytime running light harness connector.
3. Remove daytime running light mounting bolts and clip, and then remove daytime running light.

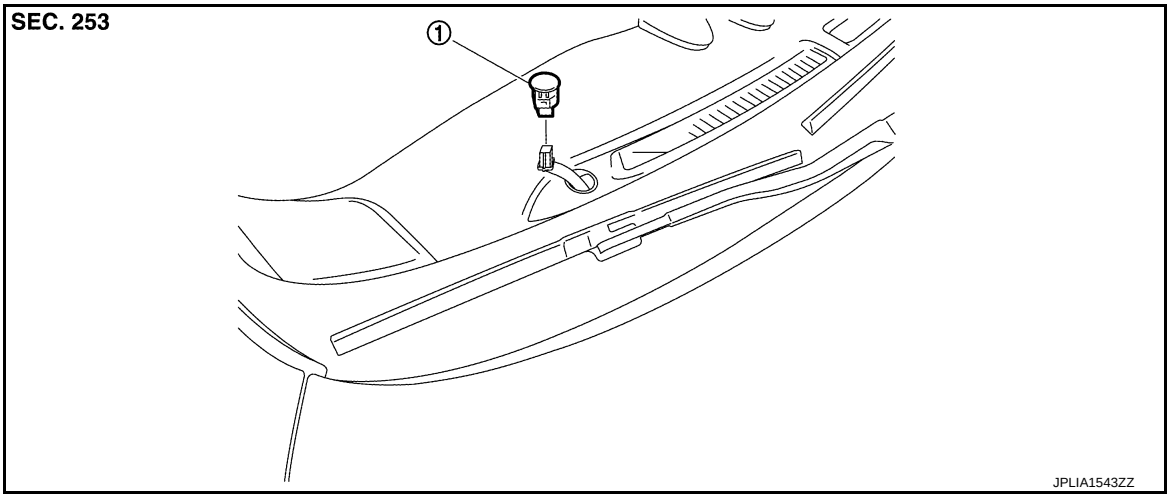
## INSTALLATION

Install in the reverse order of removal.

# OPTICAL SENSOR

## Exploded View

INFOID:0000000010840601




1. Optical sensor

## Removal and Installation

INFOID:0000000010840602

### REMOVAL

1. Insert an appropriate tool between the optical sensor and the instrument upper panel. Pull out the optical sensor upward.
2. Disconnect the connector. Remove the optical sensor.

### INSTALLATION

Install in the reverse order of removal.

# LIGHTING & TURN SIGNAL SWITCH

## Exploded View

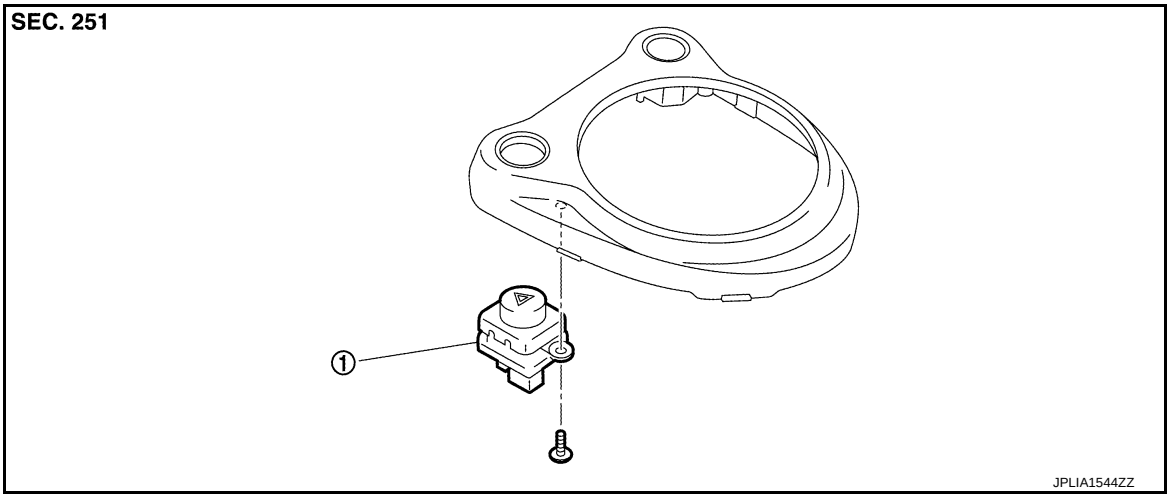
INFOID:0000000010840603

The lighting & turn switch is integrated in the combination switch. Refer to BCS-107, "Exploded View".

# HAZARD SWITCH

## Exploded View

INFOID:0000000010840604




1. Hazard switch

## Removal and Installation

INFOID:0000000010840605

### REMOVAL

1. Remove the console finisher. Refer to IP-25, "Exploded View".
2. Remove the hazard switch from the console finisher.

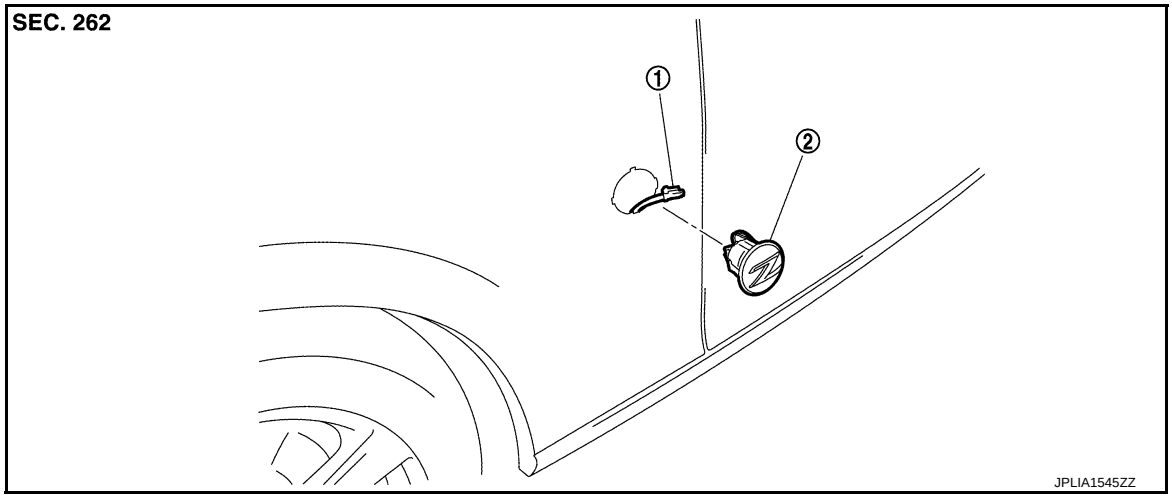
### INSTALLATION

Install in the reverse order of removal.

# SIDE TURN SIGNAL LAMP

## Exploded View

INFOID:0000000010840606




1. Side turn signal lamp connector
2. Side turn signal lamp

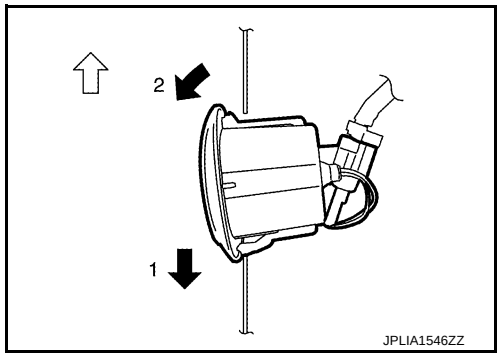
## Removal and Installation

INFOID:0000000010840607

**CAUTION:**
**Disconnect battery negative terminal or remove the fuse.**

### REMOVAL

1. Remove the side turn signal lamp in numerical order shown in the figure.




⇦ : Vehicle front

2. Disconnect the side turn signal lamp connector.

**NOTE:**
Support the vehicle-side harness of the side turn signal lamp with tape so that it does not drop inside the front fender.

### INSTALLATION

1. Connect the connector.
2. Fix the pawl-side behind the side turn signal lamp housing first, then push the resin clip-side.

## Replacement

INFOID:0000000010840608

### SIDE TURN SIGNAL LAMP BULB

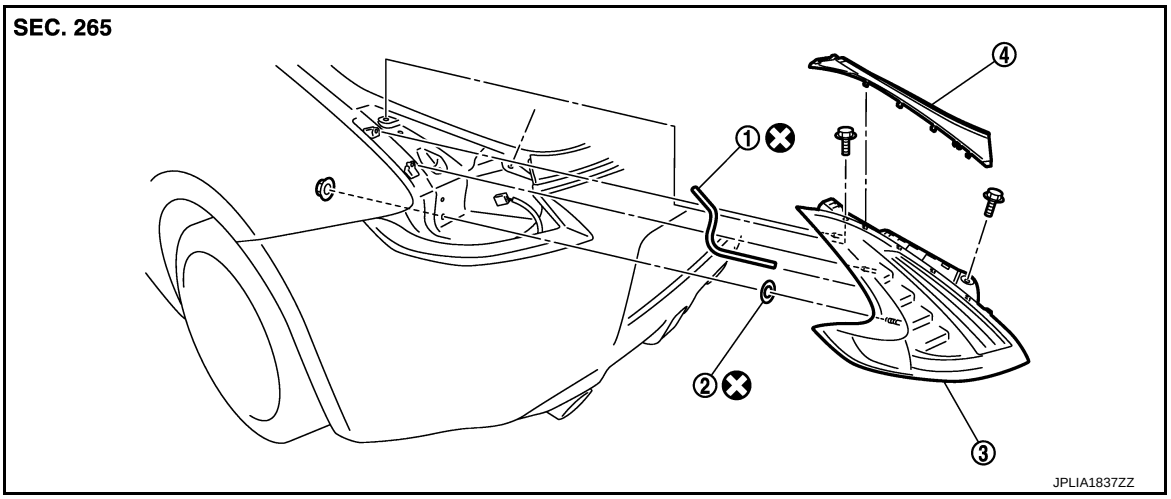
Replace the side turn signal lamp as an assembly because it cannot be disassembled.

# REAR COMBINATION LAMP

## Exploded View

INFOID:0000000010840609

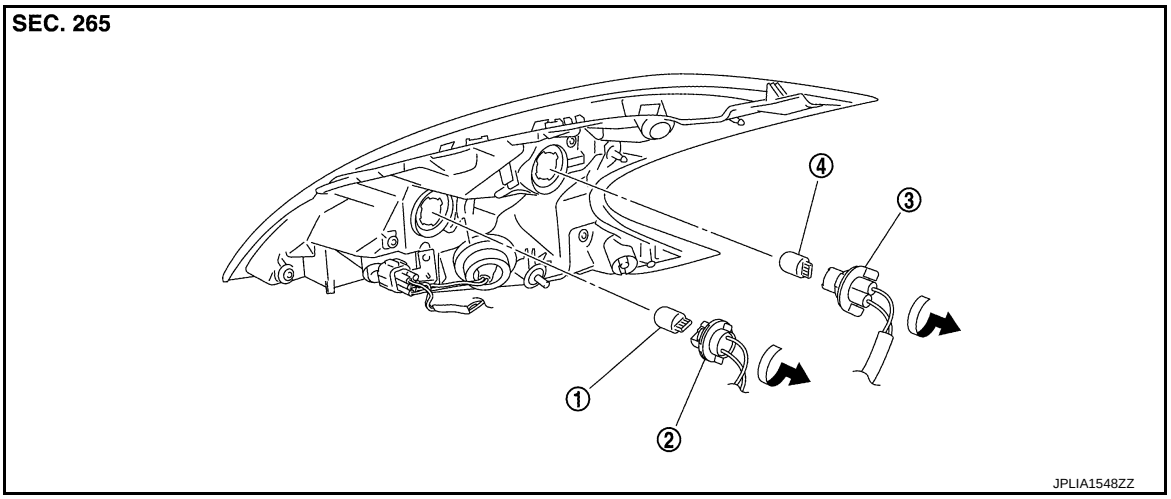
### REMOVAL




1. EPT sealer
2. Seal packing
3. Rear combination lamp assembly
4. Rear combination lamp finisher

⊗ : Always replace after every disassembly.

### DISASSEMBLY




1. Rear turn signal lamp bulb
2. Rear turn signal lamp bulb socket
3. Back-up lamp bulb socket
4. Back-up lamp

## Removal and Installation

INFOID:0000000010840610

**CAUTION:**
**Disconnect the battery negative terminal or remove the fuse.**

### REMOVAL

1. Remove the rear combination lamp finisher.
2. Remove the luggage side finisher upper / trunk side finisher.
   Coupe models: Refer to INT-31, "Exploded View".
   Roadster models: Refer to INT-75, "Exploded View".
3. Remove the rear combination lamp mounting nut and bolts.

4. Pull the rear combination lamp toward rear of the vehicle.
5. Disconnect the rear combination lamp connector.

### INSTALLATION

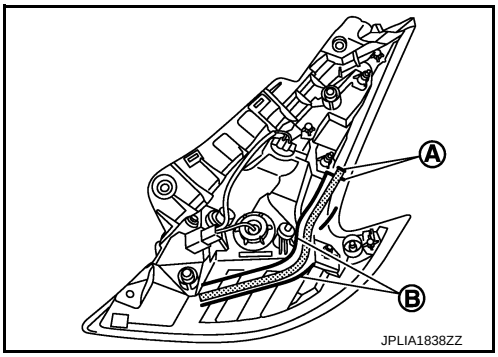
Install in the reverse order of removal.

**CAUTION:**

**Always replace EPT sealer and seal packing with a new one, if rear combination lamp assembly isreused.**

Installation EPT sealer

1. Remove the EPT sealer from rear combination lamp assembly.
2. Apply new EPT sealer within mark off line (A) surface while following the mark off line (B) as shown in the figure.




## Replacement

INFOID:0000000010840611

**CAUTION:**

- **Disconnect the battery negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.**
- **Never touch bulb by hand while it is lit or right after being turned off.**
- **Never 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.**

### REAR TURN SIGNAL LAMP BULB

1. Remove the rear combination lamp assembly.
2. Turn the rear turn signal lamp bulb socket counterclockwise and unlock it.
3. Remove the bulb from the socket.

### BACK-UP LAMP BULB

1. Remove the rear combination lamp assembly.
2. Turn the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the socket.

### STOP/TAIL LAMP

Replacement integral with rear combination lamp. Refer to EXL-117, "Exploded View".

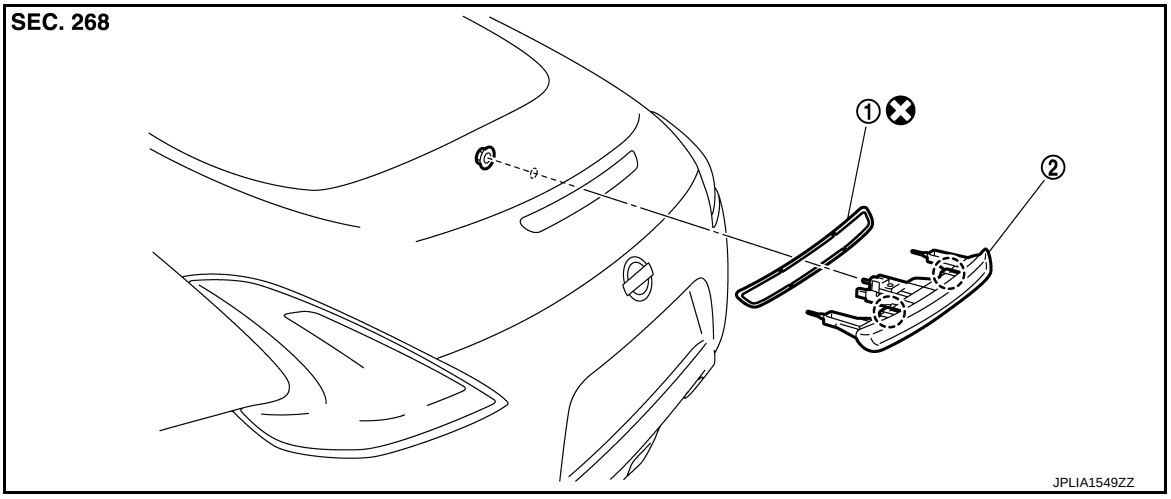
### REAR SIDE MARKER LAMP

Replacement integral with rear combination lamp. Refer to EXL-117, "Exploded View".

# HIGH-MOUNTED STOP LAMP

## Exploded View

INFOID:0000000010840612




1. Seal packing
2. High-mounted stop lamp

: Metal clip

: Always replace after every disassembly.

## Removal and Installation

INFOID:0000000010840613

**CAUTION:**
- **Disconnect the battery negative terminal or remove the fuse.**
- **Wrap the tip of remover tool with a cloth to protect the body from damage.**

### REMOVAL

1. Remove the back door trim / trunk lid trim.
   Coupe models: Refer to INT-33, "Exploded View".
   Roadster models: Refer to INT-79, "Exploded View".
2. Remove the high-mounted stop lamp mounting nut.
3. Disconnect the high-mounted stop lamp connector.
4. Insert any appropriate tool in high-mounted stop lamp and a gap of the back door. Remove the metal clip.
5. Remove the high-mounted stop lamp from the back door.

### INSTALLATION

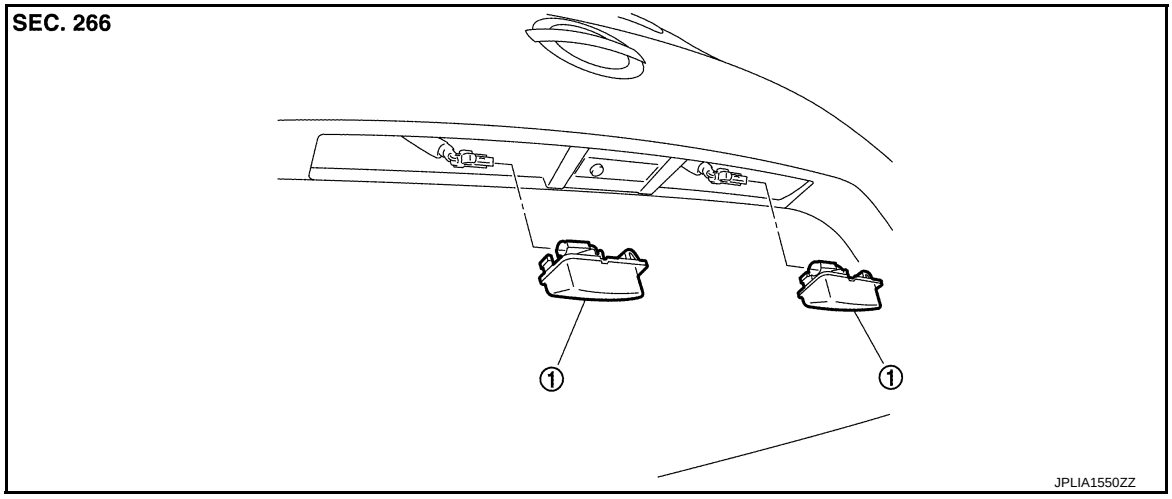
Install in the reverse order of removal.

**CAUTION:**
**Seal packing cannot be reused.**

# LICENSE PLATE LAMP

## Exploded View

INFOID:0000000010840614




1. License plate lamp

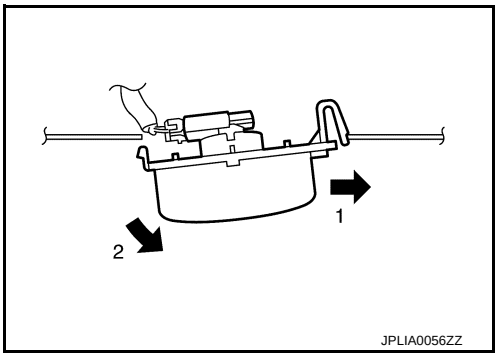
## Removal and Installation

INFOID:0000000010840615

**CAUTION:**
**Disconnect the battery negative terminal or remove the fuse.**

### REMOVAL

1. Remove the license plate lamp in numerical order.
2. Disconnect the license plate lamp connector.
3. Remove the license plate lamp.




### INSTALLATION

1. Connect the license plate lamp connector.
2. Fix the pawl side. And then push the resin clip side.

## Replacement

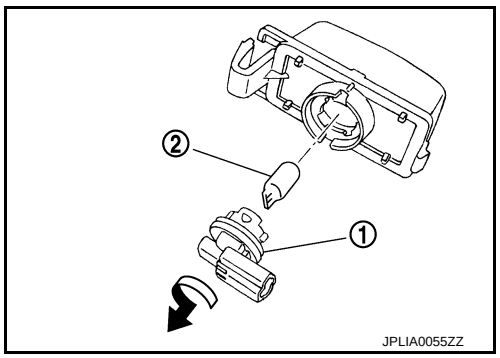
INFOID:0000000010840616

**CAUTION:**
- **Disconnect the battery negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.**
- **Never touch bulb by hand while it is lit or right after being turned off.**
- **Never 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.**

### LICENSE PLATE LAMP BULB

1. Remove the license plate lamp.

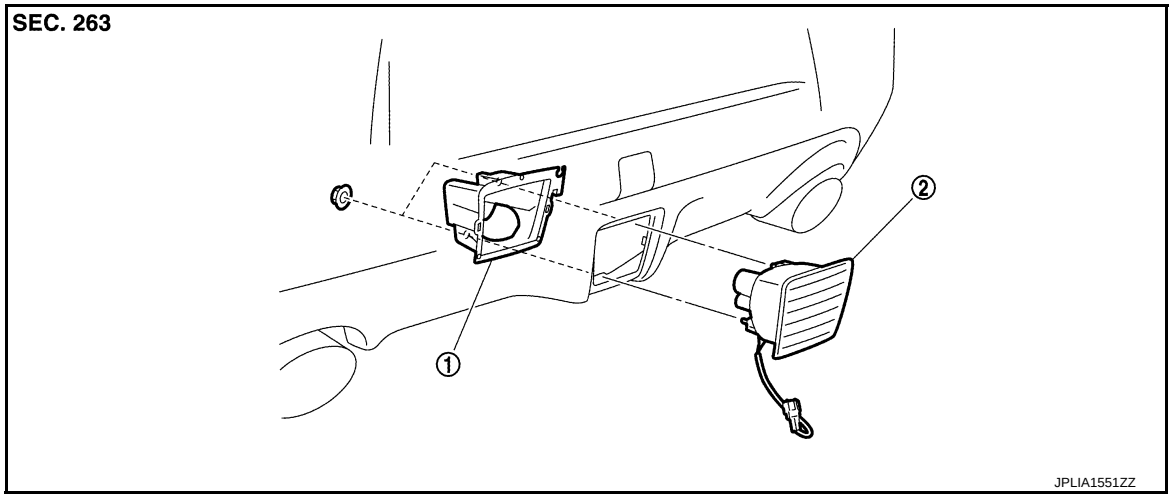
2. Turn the bulb socket (1) counterclockwise and unlock it.
3. Remove the bulb (2) from the socket.



# REAR FOG LAMP

## Exploded View

INFOID:0000000010840617




1. Rear fog lamp bracket
2. Rear fog lamp

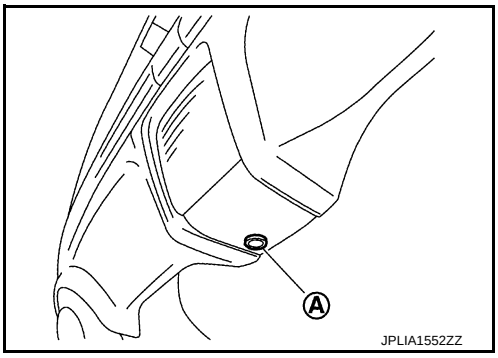
## Removal and Installation

INFOID:0000000010840618

**CAUTION:**
**Disconnect battery negative terminal or remove the fuse.**

REMOVAL

1. Remove the clip (A), keep a service area.
2. Remove the rear fog lamp mounting nuts.
3. Turn the bulb socket counterclockwise and unlock it.
4. Remove the rear fog lamp from the rear fog lamp bracket.
5. Disconnect the rear fog lamp connector.
6. Remove the rear fog lamp bracket from the rear bumper fascia.




INSTALLATION

Installation is the reverse order of removal.

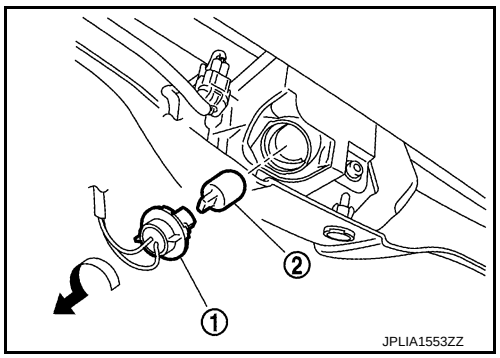
## Replacement

INFOID:0000000010840619

**CAUTION:**
- **Disconnect the battery negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.**
- **Never touch bulb by hand while it is lit or right after being turned off.**
- **Never 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.**

REAR FOG LAMP BULB

1. Turn the bulb socket (1) counterclockwise and unlock it.
2. Remove the bulb (2) from the rear fog lamp bulb socket.



# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### Bulb Specifications

INFOID:0000000010840620

| Item | | Type | Wattage (W) |
|---|---|---|---|
| Front combination lamp | Headlamp (HI/LO) | D2S (Xenon) | 35 |
| | Front turn signal lamp | 7444NA (Amber) | 28/8 |
| | Parking lamp | W5W | 5 |
| | Front side marker lamp | LED | — |
| Side turn signal lamp | | LED | — |
| Daytime running light | | LED | — |
| Rear combination lamp | Stop lamp/Tail lamp | LED | — |
| | Rear turn signal lamp | WY21W (Amber) | 21 |
| | Rear side marker lamp | LED | — |
| | Back-up lamp | W16W | 16 |
| License plate lamp | | W5W | 5 |
| High-mounted stop lamp | | LED | — |
| Rear fog lamp | | W21W | 21 |