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PRECAUTIONS

< PRECAUTION > [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"

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.).

[XENON TYPE] < PRECAUTION >

FOR USA AND CANADA: Precaution for Battery Service

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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

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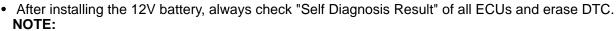
When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

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

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

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.



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.

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.

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EXL-5 Revision: 2014 September 2015 370Z

< PRECAUTION > [XENON TYPE]

- 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

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 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

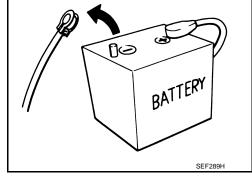
NOTE:

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

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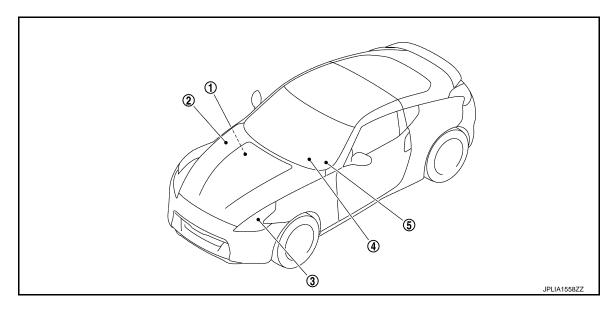
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- BCM
 Refer to BCS-10, "Component Parts
 Location".
- 4. Combination meter (High beam indicator lamp)
- IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 5. Combination switch

Headlamp

INFOID:0000000010840514

HEADLAMP SYSTEM: Component Description

Part		Description		
всм		 Detects each switch condition by the combination switch reading function. Judges that the headlamp is turned ON according to the vehicle condition. Requests the headlamp relay (HI/LO) ON to IPDM E/R (with CAN communication). 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 (Lighting & turn signal switch)		Refer to BCS-11, "System Diagram".		
Combination meter (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 Xenon bulb	Refer to EXL-79, "Description".		
High beam solenoid		Refer to EXL-75, "Description".		

AUTO LIGHT SYSTEM

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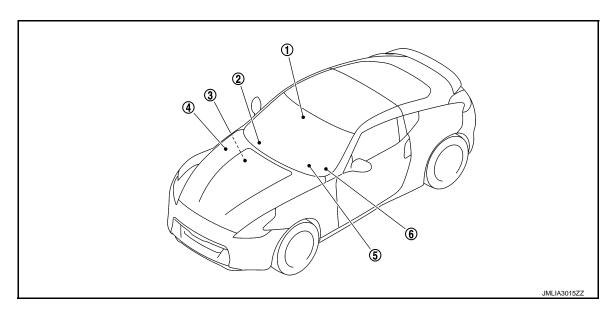
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AUTO LIGHT SYSTEM: Component Parts Location

INFOID:0000000010840515



1. Door switch

2. Optical sensor

3. BCM
Refer to BCS-10, "Component Parts
Location".

- IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 5. Combination meter
- 6. Combination switch

AUTO LIGHT SYSTEM: Component Description

INFOID:0000000010840516

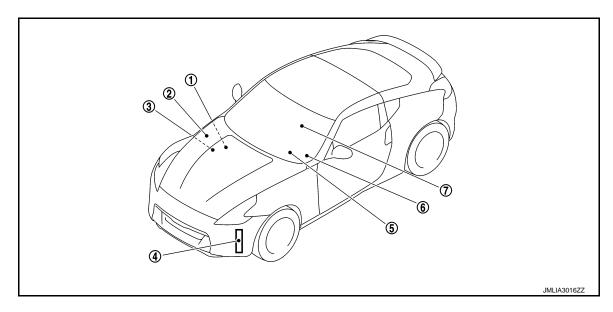
Part	Description
BCM	 Detects each switch condition by the combination switch reading function. Judges the outside brightness from the optical sensor signal. Judges the OFF timing according to the vehicle condition. Judges the ON/OFF status of the exterior lamp and each illumination according to the outside brightness and the vehicle condition. 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

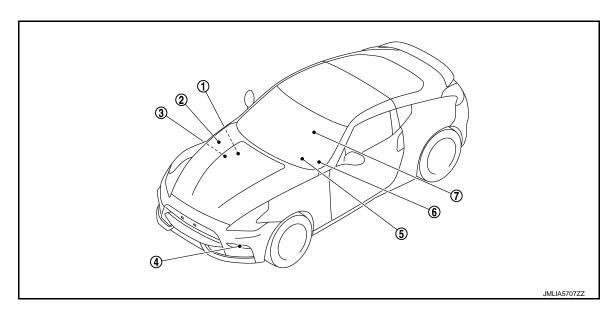
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- 1. BCM
 Refer to BCS-10, "Component Parts
 Location".
- 4. Daytime running light
- 7. Parking brake switch
- IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 5. Combination meter
- 3. ECM Refer to EC-40, "Component Parts Location".
- 6. Combination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

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

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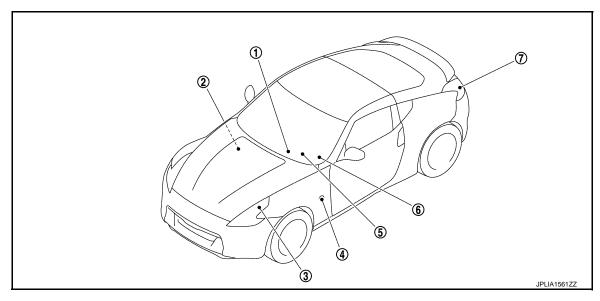
DAYTIME RUNNING LIGHT SYSTEM : Component Description

INFOID:0000000010840518

Part	Description
ВСМ	 Detects each switch condition with the combination switch reading function. Judges each lamps ON/OFF condition according to the vehicle condition. 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



1. Hazard switch

- 2. BCM
 Refer to BCS-10, "Component Parts
 Location".
- 5. Combination meter(Turn signal indicator lamp)6. Combination switch

Front turn signal lamp

7. Rear turn signal lamp

Side turn signal lamp*

*: With side turn signal lamp

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: Component Description

Part

Description

Part	Description
Hazard switch	Inputs the hazard switch ON/OFF signal to BCM.
Combination meter (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

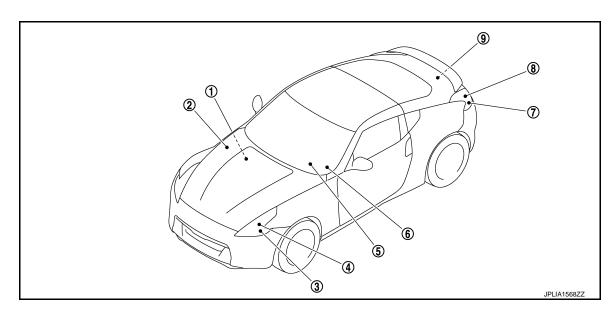
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- BCM
 Refer to BCS-10, "Component Parts
 Location".
- 4. Front side marker lamp
- 7. Rear side marker lamp
- IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 5. Combination meter (Tail lamp indicator lamp)
- 8. Tail lamp

- Parking lamp
- 6. Combination switch
- 9. License plate lamp

PARKING, LICENSE PLATE AND TAIL LAMPS: Component Description INFOID:000000010840522

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

REAR FOG LAMP SYSTEM

Revision: 2014 September EXL-11 2015 370Z

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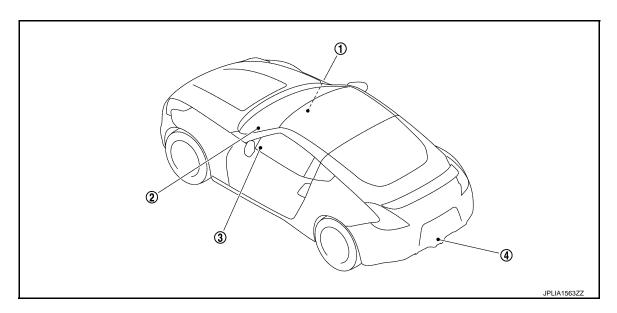
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REAR FOG LAMP SYSTEM: Component Parts Location

INFOID:0000000010840523



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

4. Rear fog lamp

REAR FOG LAMP SYSTEM: Component Description

INFOID:0000000010840524

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

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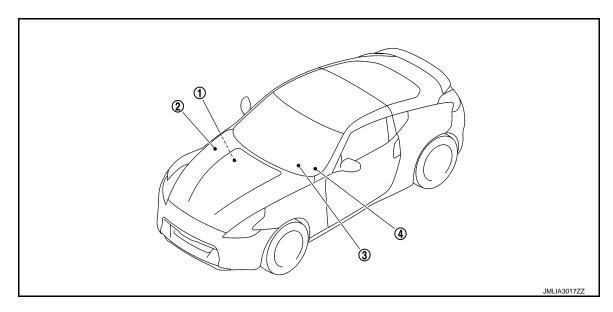
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- BCM
 Refer to BCS-10, "Component Parts
 Location".
- 2. IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 3. Combination meter

4. Combination switch

EXTERIOR LAMP BATTERY SAVER SYSTEM: Component Description INFOID:000000010840526

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

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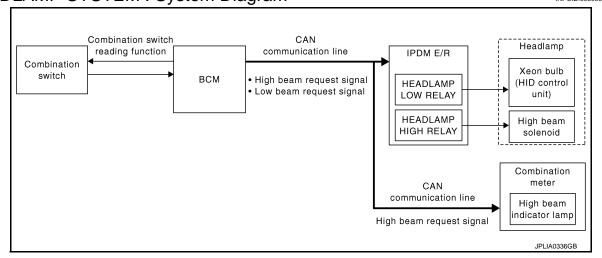
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SYSTEM HEADLAMP SYSTEM

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.

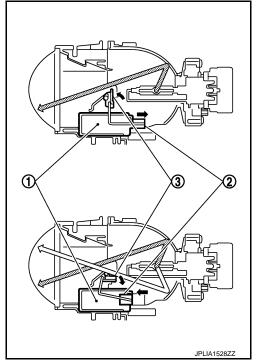
High beam switching condition

- 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.

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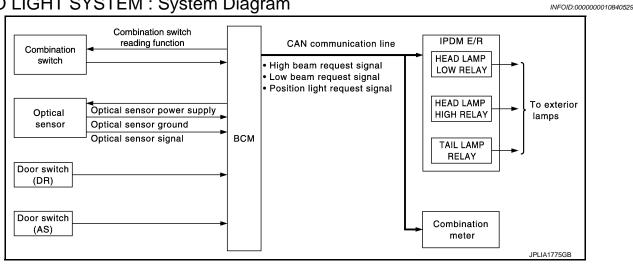
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- · When the headlamp high relay is turned ON, magnetic force is applied to the high beam solenoid (1) by a current. The mobile valve shade (3) is switched to the high beam position through the actuator rod (2).
- When the headlamp high relay is turned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



AUTO LIGHT SYSTEM

AUTO LIGHT SYSTEM: System Diagram



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.

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- 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, "HEAD-LAMP: CONSULT Function (BCM HEAD LAMP)".

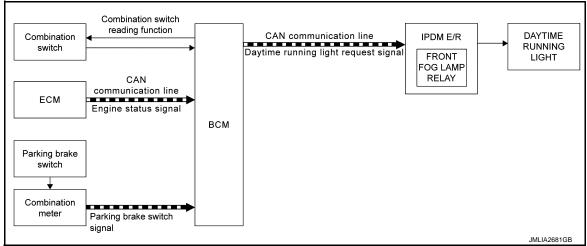
NOTE:

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 KUNNING 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.

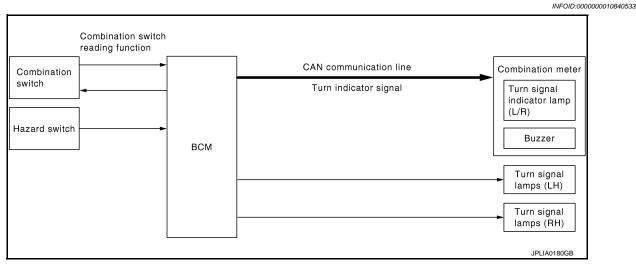
- BCM detects the parking brake condition by the parking brake switch signal received from combination meter with CAN communication.
- BCM detects ENGINE RUNNING condition by engine status signal and RELEASE condition by parking brake switch signal. And then, BCM transmits the daytime running light request 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



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.

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

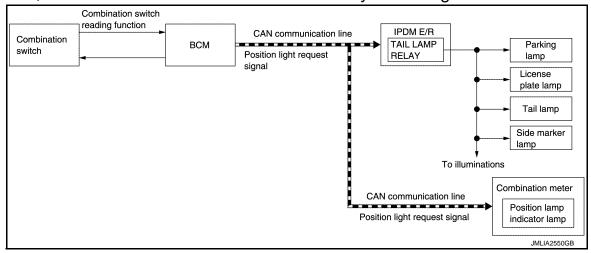
NOTE:

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

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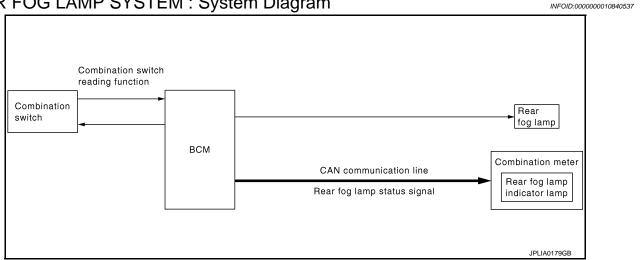
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REAR FOG LAMP SYSTEM: System Diagram



REAR FOG LAMP SYSTEM: System Description

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

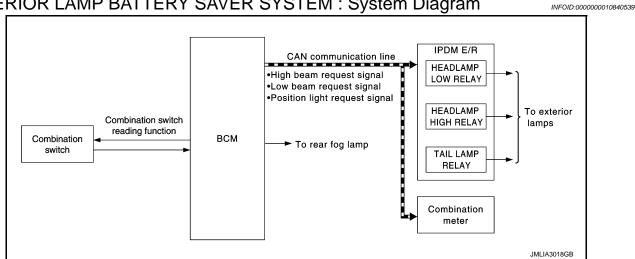
- When rear fog lamp switch signal is input (OFF ightarrow ON) with headlamp ON and rear fog lamp OFF

Rear fog lamp OFF condition (satisfied any condition as follows)

- When rear fog lamp switch signal is input (OFF \rightarrow 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



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 $ON \rightarrow OFF$ with the exterior lamps ON.

NOTE:

- Headlamp control function turns the exterior lamps ON normally when the ignition switch is turned ACC or 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

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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. 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.

x: Applicable item

System	Sub system selection item	Diagnosis mode		
System		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 systemEngine 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:

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

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^{*:} This item is displayed, but is not used.

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		
	SLEEP>LOCK		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	Power supply position status of the moment a particular DTC is detected	While turning power supply position from "OFF" to "LOCK"*	
Vehicle Condition	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 The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. 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

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Service item	Setting item	Setting			
BATTERY SAVER SET	On*	With the exterior lamp battery saver function			
BATTENT SAVEN SET	Off	Without the exterior lamp battery saver function			
	MODE 1*	45 sec.			
	MODE 2	Without the function			
	MODE 3	30 sec.			
ILL DELAY SET	MODE 4	60 sec.	Sets delay timer function timer operation time.		
ILL DELAY SET	MODE 5	90 sec.	(All doors closed)		
	MODE 6	120 sec.			
	MODE 7	150 sec.			
	MODE 8	180 sec.			
	MODE 1*	Normal			
CUSTOM A/LIGHT SETTING	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]			
TURN SIGNAL L [On/Off]			
TAIL LAMP SW [On/Off]			
HI BEAM SW [On/Off]	Each quitch status that BOM judges from the combination quitch reading function		
HEAD LAMP SW1 [On/Off]	Each switch status that BCM judges from the combination switch reading function		
HEAD LAMP SW2 [On/Off]			
PASSING SW [On/Off]			
AUTO LIGHT SW [On/Off]			
FR FOG SW [On/Off]	NOTE: The item is indicated, but not monitored.		
RR FOG SW [On/Off]	Each switch status that BCM judges from the combination switch reading function		

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< SYSTEM DESCRIPTION >

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]	
DOOR SW-RL [On/Off]	NOTE: The item is indicated, but not monitored.
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.		
	Hi	Transmits the high beam request signal with CAN communication to turn the head-lamp (HI).		
HEAD LAMP	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. 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.Stops the rear fog lamp status signal transmission.		
DAYTIME RUNNING LIGHT	On	NOTE:		
DAT TIME RUNNING LIGHT	Off	The item is indicated, but cannot be tested.		
	RH			
CORNERING LAMP	LH	NOTE: The item is indicated, but cannot be tested.		
	Off	,		
ILL DIM SIGNAL	On	NOTE:		
ILL DIIVI GIGINAL	Off	The item is indicated, but cannot be tested.		

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:0000000010840543

WORK SUPPORT

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[XENON TYPE]

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

ACTIVE TEST

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

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^{*:} Factory setting

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

 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.
- 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 <u>DLK-89</u>. "Component Function Check".
- Do not start the engine.

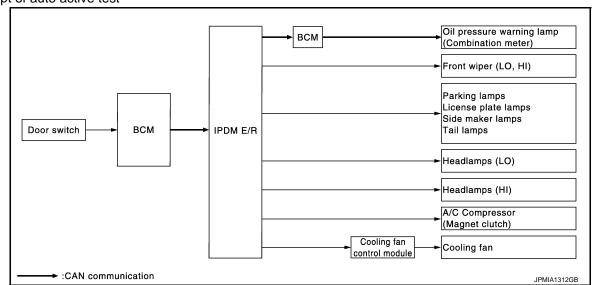
Inspection in Auto Active Test Mode

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

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DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

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

DIAGNOSIS SYSTEM (IPDM E/R)

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Monitor Item [Unit]	MAIN SIG- NALS	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
	Off	
CORNERING LAMP	LH	NOTE: The item is indicated, but cannot be tested.
	RH	
HORN	On	Operates horn relay 1 and horn relay 2 for 20 ms.
	Off	OFF
FRONT WIPER	Lo	Operates the front wiper relay.
	Hi	Operates the front wiper relay and front wiper high relay.

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

Test item	Operation	Description
	1	OFF
MOTOR FAN	2	Outputs 50% pulse duty signal (PWM signal) to the cooling fan control module.
MOTOR PAIN	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: The item is indicated, but cannot be tested.
	Off	OFF
	TAIL	Operates the tail lamp relay and daytime running light relay. NOTE: Daytime running light relay is with daytime running light system only.
EXTERNAL LAMPS	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: The item is indicated, but cannot be tested.

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

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INFOID:0000000010840546

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

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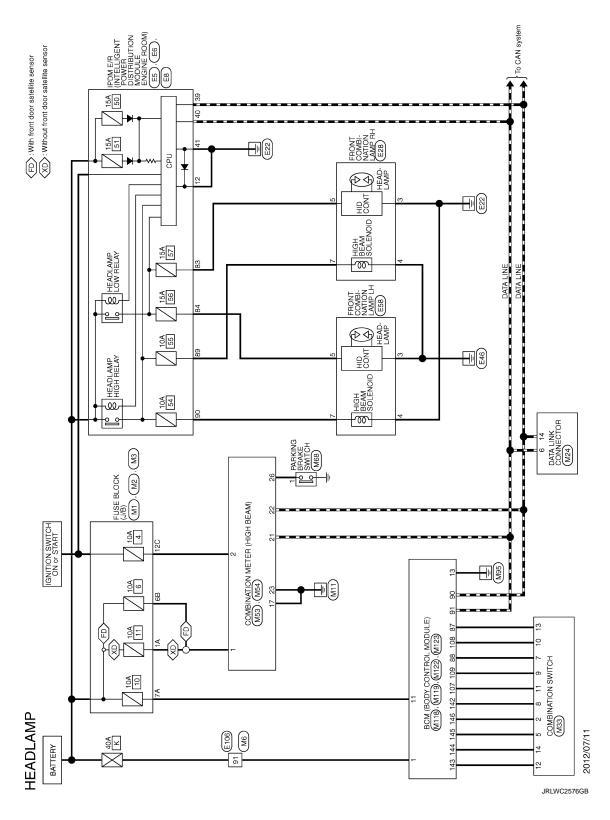
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WIRING DIAGRAM

HEADLAMP SYSTEM

Wiring Diagram



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Contractor Name Secretar Part Contractor Name Contractor N	⋛	F				:	
Corrector Name FRONT COMBINATION LAMP LH 21 6 6 6 6 6 6 6 6 6	Connector No. E5	+	Connector	Т	07.	5	
Corrector No. ES Corrector No. Correct	IPDM EIR (INTELLIGENT POWER DISTRIBUTION MODULE	4	Connector		21	æ	- [Coupe models]
Corrector No. East	ENGINE ROOM)			\neg	21	O	 [Roadster models]
Corrector Name Specification Corrector Name Corrector Name Specification Corrector Name C	or Type TH20FW-CS12-M4-1V		Connector T		31	٦	
Corrector Name Councid to			ú		32	Υ	
Corrector Type Risper VCS Corrector Type Corrector Type Risper VCS Corrector Type Corrector Type Risper VCS Corrector Type Risper VCS Corrector Type				J	36	>	
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HS		ます			40	\$	
Terminal Color Of Signal Name Specification Signal Name					41	PIG	
10 10 10 10 10 10 10 10					42	SB	
Terminal Color Of No. Wire Signal Name Specification 12 12 12 13 14 14 15 15 14 15 15 14 15 15	omold louvin	89 88 87			43	9	
Terminal Color Off Signal Name Specification Signal Name Signal Name Specification	Olginal Ivanie				44	GR	- [Except for roadster models with M/T]
Feminal Color Of Signal Name Specification Corrector Name Corre	^		9		44	α	- [Roadster models with M/T]
Terminal Color Office Signal Name (Specification) Signal Nam			H	B/W	45	BG	
No. Wive Signal Name (Specification) 6 GR		Color Of	2	,	46	×	
Signature Sign		Wire	H	as	47	۵	
Signate Corrector No. Co	L	t	t		9		
See Fig. See See Fig. See See Fig. See		+	t		8		
Signate Signate Name Specification Specificat	· ·	+	┨	BG .	ŝ	-	
Signature Cornector Name	- re				70	Ь	
Cornector No. E38 G					80	≯	
Some clor Name Specification Signal Name Signal	9	L	Connector N	l	81	۵	
Corrector No. E28	·	H		_	85	0	
Comector No. E28 Comect		+	Connector N		8	>	
Corrector No. E28	2	1	Toppoor		8 8	-	
Corrector No. E28	5 0		0000		90	7 6	
Corrector Name FRONT COMBINATION LAMP RH HS Corrector Name Specification Provided to the control of		Γ	₫.		8 8	3 :	
Corrector Name FRONT COMBINATION LAMP RH HS.		Ī	手	E 23 20 21 21 21 21 21 21 21 21 21 21 21 21 21	98	57	
Corrector Type RSO6FGV-PR	١) E		87	œ	
Cornector Type RS06FGY-PR	. No. E6		2	00 1 1 1 1 1 1 1 1 1	88	Ь	
Terminal Color Of No. Wire Signal Name (Specification) 97 1	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE				91	Μ	
H.S.	Name Engine Room)				92	_	
Terminal Color Of Signal Name [Specification] Signal Name [S	Type TH08FW-NH				93	ŋ	
100 Terminal Color Of Signal Name (Specification) 26 100					8	>	
Company Comp		SH S	Tarminal	L	g	,	
	K	_	2		3	- 6	
45 45 44 40 35 45 44 42 45 44 42 5 44 42 5 44 42 5 44 42 5 44 42 5 44 42 7 5 7 8 7 5 7 9 9 9 10 100 10 100 11 10 12 12 12 13 14 14 15 15 15 16 17 15 17 16 17 17 18 18 19 19 10 10 10 11 10 12 12 13 14 14 15 15 15 15 16 16 17 17 18 18 19 19 10 10 10 11 10 12 10 13 10 14 12 15 10 15 10 16 10 17 10 18 10 19 10 10 10 10 10 10 10	1	(4 5 8)	+		ĥ	£ ;	
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6 LG	- L	+	12				
7 BR	-	_	13				
8 P P 15 1 16 1 17 1 17 1 17 1 17 1 17 1 17 1	B/W	H	H	GR -			
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- 12	- 88		16	- M			
	W		12	:: 8			

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HEADLAMP	Connector No. M3	21	α.		Connector No.	M24
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Connector Name FUSE BLOCK (J/B)	Connector Name FUSE BLOCK (J/B)	32	+		Connector Name	DATA LINK CONNECTOR
Connector Type NS06FW-M2	Connector Type NS12FW-CS	36	SB		Connector Type	BD16FW
	á	37	Н		Į Į	
	医	88	+		彦	
3A2A 1A		8 3	88		HS	11 14 16
40 40	000000000000000000000000000000000000000	3	+]]	
8A /AIDA DA 4A		4	+		Τ	
		1 6	$^{+}$		I	
		3 4	╁	- IWith A/TI		
	Terminal Color Of	44	H	- IVVith M/TI	Terminal Color Of	
No. Wire Signal Name [Specification]	No. Wire Signal Name [Specification]	45	┞		No. Wire	Signal Name [Specification]
	10C L .	46	G		3 LG	- [Coupe models]
-	11C LG -	47	, BR	=	3 ×	- [Roadster models]
	12C 0 .	28	SHIELD	-	4 B	
	6C R .	29	_	-	5 B	•
	7C B .	70	e.		9	,
		8	\dashv		7	•
BR -		8	GR	-	8 G	-
		82	>		11 LG	 [Roadster models]
	Connector No. M6	83	>		\dashv	- [Coupe models]
	Connector Name WIRE TO WIRE	8	+		+	
M2	\neg	82	_		16 Y	-
Connector Name FUSE BLOCK (J/B)	Connector Type TH80MW-CS16-TM4	98	+			
		8	+		1	
Connector Type NS10FW-CS	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8	+		Connector No.	M33
		6 8	+		Connector Name	COMBINATION SWITCH
	8 8	92	+		Т	
4B 3B		8 8	1 >		Connector Type	I H16FW-NH
]]		25 S	+		Q.	
8888 6838		96	- G		善	[
	Terminal Color Of	6 8	+		T.S.	1
	No. Wire Signal Name [Specification]	8 8	+	,		1 2 5 6
Terminal Color Of Signal Name (Specification)	- ·	100	┡			7 8 9 10 11 12 13 14
Wire Signal Name [Specification]	3 L					
•	4 L					
	7 B .				nal C	Signal Name [Specification]
•	- d				No. Wire	financia del acciona ancien
	8				т-	FR WASHER (-)
	11 GR -				2 SB	OUTPUT 4
	12 R -				2 F	OUTPUT 3
	13 L -				9 9	GROUND
	14 G -				۸ ۷	INPUT 3
	15 P				8	OUTPUT 5
	16 W -				. 6	INPUT 2
	17 BR -				10 R	INPUT 4
	20 GR .				11 LG	INPUT 1
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Convector Name Color Col	Convector Name COMBINATION METER Convector Name COMBINATION METER Convector Name COMBINATION METER CONVECTOR Name CONVECTOR Na	RR 8910 112 122 123 224	COMBINATION METER THISFW-NH [25 [26 [27 [28 [29]]] [33 [34] 35 [36] 37] 38 39 40		Connector Nam	
TT 2	Trimmed Color Co	R 8 9 10 12 12 12 12 12 12 12 12 12 12 12 12 12	THISPWANH THISPWANH THISPWANH TS 58 53 33 38 39 40			
Connector Type TriefFVAH4	Corrector Type THEPFLY H THEPFLY H Corrector Type THEPFLY H THEPFLY H	8 09 00 00 00 00 00 00 00 00 00 00 00 00	TH16FW-N4H 25 56 27 28 29 32 33 3-4 35 36 37 38 39 40			t
Terminal Coby Of Signal Name (Specification) No. Wider Common		R	(本)	٦.	Connector Type	_
1 1 1 1 1 1 1 1 1 1	10 10 10 10 10 10 10 10	910 12 22 22 22 22 22 22 22 22 22 22 22 22	25 <u>126 27 28 129</u> 32 33 34 35 36 37 38 39 40		E	
	19 10 10 10 10 10 10 10	1920212222	27 28 29 35 36 37 38 39	\(\frac{1}{2}\)	H.S.	
19 10 12 12 12 12 12 12 12	Terminal Cobr Of Signal Name (Specification) No. No.	9202122324	30 00 1/c loc loc			₹I
1 1 1 1 1 1 1 1 1 1	1 10 12 13 14 15 15 15 15 15 15 15	1920 21 22 23 24]		
	Separation 2	19 20 21 22 23 24	Color Of Signal Name [Specification]	Color Of Wire	Terminal Color No. Wire	
25 1.5 POWER WINDOW POWER SUPPLY (BAT) 1.2 POWER WINDOW POWER SUPPLY (BAT)	27 1G Parker Surputy (BAN) 29 Y Powers Window Powers Sur	27	*	П	72 L	ROOM ANT 2-
Specification 28	23	27	O PARKING BRAKE SWITCH SIGNAL	┪	+	
Standington	Standing 23 GR WASSHER LEVEL SWITCH SIGNAL Standard SIGN		LG BRAKE FLUID LEVEL SWITCH SIGNAL SECTIBITY SIGNAL	Y POWER WINDOW POWER SUPPLY (IGN)	+	
Cornector No. 23 C PADDLE SHIFTER DOWNS GOAM, A Cornector No. M 15	Cornector No. 23 Co PADDLE SHIFTER DOWN SIGNAL Cornector Name EACH (EDDY CONTROL MODULE) To 1 Cornector Name EACH (EDDY CONTROL NAME MODE SIGNAL To 1 Cornector Name EACH (EDDY CONTROL NAME MODE SIGNAL To 1 Cornector Name EACH (EDDY CONTROL NAME MODE SIGNAL To 1 EACH	<u> </u>	GR		+	
Signature Sign	Signature Sign	WER SUPPLY	G PADDLE SHIFTER DOWN SIGNAL		H	DRIVER DOOR ANT+
Signature Sign	Signature Sign	N SIGNAL	O PADDLE SHIFTER UP SIGNAL			ROOM ANT 1-
1	1		BR FUEL LEVEL SENSOR SIGNAL	\neg	+	
1	1		L SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	- 1	+	
The Signature The Signatur	Terminal Color OI Term		L PASSENGER SEAT BELT WARNING SIGNAL [For Mexico]		+	NATS ANT AMP.
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	I T	P PASSENCER SEAT BELT WARNING SIGNAL [Except for Mexico.]		+	+
Terminal Color Of Name Signal Name (Specification) Terminal Color Of Name Terminal Color Of Name Terminal Color Of Name Signal Name (Specification) Terminal Color Of Name	Terminal Color Of Signal Name (Specification) Terminal Color Of Signal Nam	IUS SIGNAL	G NON-MANUAL MODE SIGNAL	4 5	$^{+}$	+
Corrector No. M68 Terminal Color Of Corrector No. M69 Terminal Color Of Corr	Corrector No. M68 Terminal Color Of Corrector No. M69 Terminal Color Of Corr	(WELEN-CIRILE METER)	> _	12 1/1 15 17 18 1	+	COMBLSW INFO
Corrector No. M68	Corrector No. M68	ITCH SIGNAL	*	2	H	CAN-L
Corrector No. M68 No. Wire Signal Name (Specification) No. Wire N	Corrector No. M68 No. Wile Signal Name (Specification) No. Wire No. Wir	SC POWER SUPPLY			91 L	CAN-H
Connector No. M68 Terminal Code of Connector No. M68 Terminal Code of Connector No. M68 Terminal Code of Connector Name Parktinic BRAKE SWITCH A M7 M11 M2 M2 M2 M2 M3 M3 M3 M3	Cornector No. M68	AIR BAG SIGNAL			H	KEY SLOT ILL
Cornector Name PARKING BRAKE SWITCH No. Wife Supervise S	Corrector Name PARKING BRAKE SWITCH No. Wife Viginal Name Specification 15 C		M68		93 ^	ONIND
Commetcy Type Pot FeA	Common Name Control of Nam		HOTIMS BYANG BUNDAN		H	ACC RELAY CONT
Connector Type Poi FB.A 5 C PASSENCERO UNDOC UNPUT 100 GR 100	Connector Type Pot FB.A. 5 C PASSENCERO UNLOCK OUTPUT 100 GR			П	. ∀ 96	A/T SHIFT SELECTOR POWER SUPPLY
10 0 0 0 0 0 0 0 0 0	10 10 10 10 10 10 10 10		P01FB-A	\forall	\perp	SHIFT P/CLUTCH PEDAL POS SW
The color of the	The mine Color Of Signal Name Specification The mode T			┪	\dashv	PASSENGER DOOR REQUEST SW
11 BR BATTFUSE) 10 10 10 10 10 10 10 1	11 BR BATTFUES 10 0 0 0 0 0 0 0 0				101 Y	DRIVER DOOR REQUEST SW
13 B PUSHBUTTONIGNTOND 103 LG 14 R PUSHBUTTONIGNTOND 103 LG 15 V TURN SIGNAL RH (FROMT, SIDE) 109 Y 17 W TURN SIGNAL RH (FROMT, SIDE) 109 Y 18 O TURN SIGNAL RH (FROMT, SIDE) 110 P 19 ROOM LAMP TIMER CONTROL.	13 B PUSHBUTTONIGNTOND 105	\ 			4	BLOWER FAN MOTOR RELAY CONT
1	14 R PUSHBUTONIGNULICAD 107 LG 10	•	<u> </u>		4	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
15	15		4	-	4	COMBI SW INPUT 1
17 W TURN SIGNAL RH FRONT, SIDE 109 Y 109 P 100 P 10	17 W TURN SIGNAL RH FRONT SIDE 109 Y 100 P 100]	Y ACC IND	L	COMBI SW INPUT 4
19 0 TURN SIGNAL LH (FRONT SIDE) 110 P	110 P 110		17	L	L	COMBI SW INPUT 2
Signal Name [Specification] 19 P ROOM LAMIP TIMER CONTROL.	Signat Name [Specification] 19 P ROOM LAMIP TIMER CONTROL.		000	╀	╀	HAZARD SW
Signal Name (Specification)	Sgral Name (Specification)	F		+	4	THE ARD SW
\forall	H	Term	Signal Name [Specification]	_		
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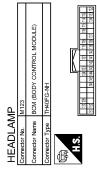
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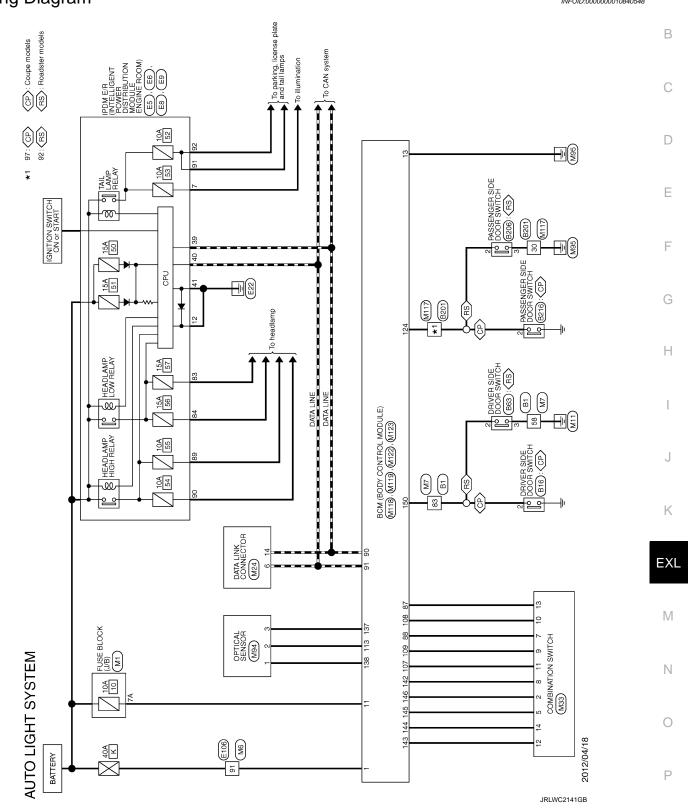
ģ	Color Of Wire	Signal Name [Specification]
113	0	OPTICAL SENSOR
114	Я	CLUTCH INTERLOCK SW
115	0	
116	as	STOP LAMP SW 1
118	а	STOP LAMP SW 2
119	as	DR DOOR UNLOCK SENSOR
121	Я	KEY SLOT SW
123	M	IGN F/B
124	97	PASSENGER DOOR SW
129	0	TRUNK LID OPENER CANCEL SW
130	٦	REAR DEFOGGER SW
132	۸	P/W SW & SOFT TOP C/U COMM [Roadster models]
132	Å	POWER WINDOW SW COMM [Coupe models]
133	9	PUSH BUTTON IGNITION SW ILL POWER
134	SR	LOCK IND
137	Ь	RECEIVER &SENSOR GND
138	۸	RECEIVER & SENSOR POWER SUPPLY
139	٦	TIRE PRESS RECEIV COMM
140	9	P/N POSITION
141	٨	SECURITY INDICATOR
142	0	COMBI SW OUTPUT 5
143	۵	COMBI SW OUTPUT 1
144	9	COMBI SW OUTPUT 2
145	7	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	9	REAR WINDOW DEFOGGER RELAY CONT

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AUTO LIGHT SYSTEM

Wiring Diagram INFOID:0000000010840548



AUT	0 LIG	AUTO LIGHT SYSTEM									
Connector No.	tor No.	81	45	R		Connector No.	B16	ঠ	Connector No.	B201	
Connec	Connector Name	WIRE TO WIRE	43 43	# "		Connector Name	DRIVER SIDE DOOR SWITCH	8	Connector Name	WIRE TO WIRE	
Connec	tor Type	Connector Type TH80FW-CS16-TM4	45	BG		Connector Type	A03FW	<u> </u>	Connector Type	TH80FW-CS16-TM4	
Œ		l bdra	46	88	- [Roadster models]	Œ.	E	(E			
手			47	>		李	<u>K</u>	手	Į.		
Ŝ	ń		48	SHIELD	. 01	2		7	νį		
			51	≯			2				
			52	œ į		_	<u> </u>				
		o Ma	28	SHELD							
Termina	Terminal Color Of	Occupi Money	9	>		lal	Simple Month of Control	Ter	Terminal Color Of	Orangi Momo Consideration	
ò	Wire	olgildi Naili	19	SB	-	No. Wire	olgilar Name [opecimoning	_	No. Wire	orginal ivalile [opecification]	
1	G		62	SHIELD	- · · · · · · · · · · · · · · · · · · ·	2 GR			2 BR	- [Coupe models]	
2	BG		63	BR					2 R	- [Roadster models]	
3	Υ		64	٨	•				3 B	- [Roadster models]	
4	W		65	SHIELD	- · · · · · · · · · · · · · · · · · · ·	Connector No.	B63		3 У	- [Coupe models]	
9	۸		99	Д		Compositor Namo	DEIVER SIDE DOOR SIMITOR		4 G		
7	LG		67	_			DAINER SIDE BOOK SWITCH		7 R	- [Coupe models]	
8	GR		99	SHIELD	- TD	Connector Type	A03FW		7 Y	- [Roadster models]	
6	SB		69	œ		[Œ		9 TC		
11	Υ	-	20	9	•	II.			A 6		
12	H		71	>		•	<u>x</u>	Ĺ	11 R		
13	┝		72	۵		Ž.		Ľ	20 G		
14	H		73	Æ			6	Ľ	L		
15	В		74	GR			11	Ľ			
16	H		75	BB			33	Ľ	W 40		
17	H		80	>]]	Ľ	41 V		
18	┞		81	œ		Terminal Color Of	O constitution of the cons	Ľ	42 G		
20	L		82	В		No. Wire	oighal Marie [opecification]	Ľ	43 L		
21	Ø		83	GR		2 GR		Ľ	44 SB		
22	GR		8	ဗ	- [Coupe models]	3 B		Ľ	51 P		
23	^		8	_	- [Roadster models]			Ľ	52 L		
24	BG		85	PT					53 SHIELD		
25	٦		86	>					54 BR		
56	Ь	•	87	BR					55 Y		
27	Ν		88	SR.					56 SHIELD		
28	SHIELD		93	٨					57 G	- [Coupe models]	
31	W		95	ပ	- [Roadster models]				H	- [Roadster models]	
32	ď		94	ŀ		_			- 28	- [Boadster models]	
8	۵	- [Coune models]	8	, R				Γ	2 89	- [Count models]	
33	×	- [Roadster models]	88	9				'	29 B		
8	2		96	_				Ľ	┝		
32	В	- [Roadster models]	26	>				Ľ	61 GR		
32	×	- [Coupe models]	86	≯	- [Coupe models]			_	62 B		
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ſ	П	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE THE PROME DOOM.	Т	De TH16FW-NH			<u></u>	00 00 00 00	25					Wire Signal Name [Specification]		BG -				11400		me WIRE TO WIRE	_	De TH80FW-CS16-TM4		8 G G G G G G G G G G G G G G G G G G G	60 0	か マロマン (2000年) (20000年) (20000年) (2000000000000000000000000000000000000	(4 R (4 R (5 R (6 R (6	表 章 33 使 使 更 更 更 更		olor Of Signal Name [Specification]										GR -			as a		BK - [Coupe models]	_
	Connector No.	Connector Name		Connector Type	á	B	Ę	2					Terminal Color Of	No.	91	\dashv	4	104 L		1	Connector No.	Connector Name		Connector Type	Q	ATT.	\ \				-	Terminal Color Of	$^{+}$	- «	4	7	80	6	11	H	13	14 G	Н	Н	+	+	7 7 7 E	
	Connector No. E6	Connector Name India en (INTELLIGENT POWER DISTRIBUTION MODULE	Т	Connector Type TH08FW-NH		E		105 111 1	47 41 40 23	46 45 44 43			Color Of	Wire Signal Name (Specification)	- d	H	B/W -	+	+	M (+			Γ	Connector No. E8	Connector Name IPDM 6-R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Т	actor 1 ype				90 88 84 86			Color Of	Wire Signal Name [Specification]			BG	H		H						
[S	Conn	 	Coun	Q	[B	_	•					Terminal	Ö.	39	40	- -	45	43	444	7	46	lī	Ĺ], 1		₫ Γ	F	!	_			Terminal	ž	83	88	8	87	88	88	06					
	Connector No. B216	Connector Name PASSENGER SIDE DOOR SWITCH	Т	Connector Type A03FW	E		I E		2	<u>·T</u>]]	Terminal Color Of	No. Wire Signal Marrie [Specification]	2 LG .		ſ	Connector No. E5	Connector Name PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE PAGNE ROOM)	THE PERSON OF TH	7	₫.			4 5 7				Terminal Color Of		4 V			/ V - [Koadster models]	╁	97	*	25 G .	27 Y	28 L	30 GR	H						
TO LIGHT SYSTEM	1	-				 [Roadster models] 	- [Coupe models]	 [Roadster models] 	- [Coupe models]	- [Coupe models]	- [Roadster models]			- [Coupe models]	- [Roadster models]			- [Coupe models]	- [Coupe models]	- Koadster models	- Roadster models	- [Coupe models]	- Coupe models	- [Roadster models]	- Coupe models	- [Koadster models]	sanna annon -	- [Koadster models]	- [Coune models]	- [Roadster models]		4 0 0 0	B206	PASSENGER SIDE DOOR SWITCH	A03FW		€	<u>k</u>		6	1	3		InoiteofficeoSI emeN leaniS	Transported a supplier			
9 2	4	4	۵.	+	Ø	В	>	٦	Ь	٦	۵	۵	В	В	W	М	D D	SB	> ;	≥ (5 i	SHELD	$^{+}$	+	2	> 3	A 5	0	æ	╀			Connector No.	Connector Name	Connector Type		-	•	Į,					lal	7	2 .	2	
[99	67	88	69	70	71	7.1	72	72	73	73	74	75	9/	9/	77	95	95	S 8	3 3	5	8 8	S	8	'n) i	8 8	8 8	100	100			Conne	Conne	Connec			•	1					Termir	ė (7 (າ	

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31	Ĺ		Conne	Connector No.	M1	17	BR			Connector No.	Ш	M7	_
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'n	L	· -	Conne	Connector Type	NS06FW-M2	3	æ	,		Connector Type	П	TH80MW-CS16-TM4	_
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4		R - [Roadster models with M/T]				42	œ						
4			Terminal	nal Color Of		43	Ø			Terminal	Terminal Color Of	:	_
46		M	2		Signal Name [Specification]	44	O	- [With A/T]		Š	Wire	Signal Name [Specification]	
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8 4	5 E	- [Roadster models]	Connector Name		DATA LINK CONNECTOR	13	# c	INPUT 5		40	0 >		_
47	2		Connector Type	1	BD16FW		,	5]	42	. 0		_
48	SHIELD	-		ı						43	_		
51	>		厚			Connec	Connector No.	M94		44	SB		П
25	œ		710		14 14 16	Connec	Connector Name	OPTICAL SENSOR		51	œ	ı	_
22	SHIELD		2	-						25	o		_
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9	~					厚	_			22	>		_
62	SHIELD	-		ŀ		SH.	v			26	SHELD	•	_
83	œ		na L	Color Of	Signal Name [Specification]		3	£		22	9	- [Conbe models]	_
64	9		Ö	wire				1 2 3		2/	a.	 Roadster models) 	_
92	SHELD	-	en 0	<u>ا</u> د	- [Coupe models]					28	_ (- [Roadster models]	_
8 8	3 :		,	-	- Koadster models					8 8	r i	- Coupe models	_
6	> [4 4	0 0		Tormin	John Of		ſ	ñ	ءِ م		_
8 8	SHIELD.		n	n -			No Wire	Signal Name [Specification]	ī	00	> 5		_
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2	ř		=	-	- [Conbe models]					62	9		_
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8 8	- 3					Connec	Connector Name	WIRE TO WIRE		8	<u> </u>		_
8	: 2		Connector No	ı	M33	Connec	Connector Type	THB0MW-CS16-TM4		3 2	· -		_
8	5 0			ı			1		1	2 2	1 0		_
8 8	5 -		Connector Name		COMBINATION SWITCH	<u>(</u>	7			2	0 00		_
88	, o		Connector Type	Т	TH16FW-NH	E		1 6 73 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		1 22	0 00		_
98	>	,		1		3	H.S.	2 7 000 516 516 516 12 12 12 12 12 12 12 12 12 12 12 12 12		74	В	,	_
87	Ж							8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		75	œ		_
88	SB	•	ŧ					30 56 30 50 50 50 50 50 50 50 50 50 50 50 50 50		9/	В		
93	>		S.F		7 2					22	m		
94	٦	- [Roadster models]			7					95	9	- [Coupe models]	
94	SB				7 8 9 10 11 12 13 14	Terming	Ferminal Color Of	Signal Name [Specification]	-	95	PC	 [Roadster models] 	_
92	g.					Ž	Wire	in the latest and the		93	œ	- [Coupe models]	_
92	>	- [Roadster models]				5	GR	 [Coupe models] 		93	>	 [Roadster models] 	_
96	-		nal	Color Of	Signal Name [Specification]	2	LG	 [Roadster models] 		8	9	 [Roadster models] 	_
6	വ	- [Coupe models]	No.	Wire	organic regime [obcompanie]	9	В	 [Roadster models] 		8	SHIELD	- [Coupe models]	_
97	>	·	-	Ъ	FR WASHER (-)	က	0	- [Coupe models]		92	PC	 [Roadster models] 	_
86	BG		2	SB	OUTPUT 4	4	W	-		92	SB	- [Coupe models]	
86	Y/B	- [Roadster models]	2		OUTPUT 3	7	LG	- [Conpe models]		97	re	- [Coupe models]	_
66	≥	,	9	В	GROUND	7	>-	 [Roadster models] 		97	>-	 [Roadster models] 	_
100	В		7	>	INPUT 3	8	ΓG			86	>	- [Coupe models]	\neg
			∞	0	OUTPUT 5	6	>		T	86	Y/B	- [Roadster models]	_
			6	>	INPUT 2	=	ď			66	တ		_
			9	œ !	INPUT 4	2	o l		T	100	Ж :	- [Conbe models]	_
			1	Pl	INPUT 1	21	ď	ì	٦	100	>	 [Roadster models] 	\neg

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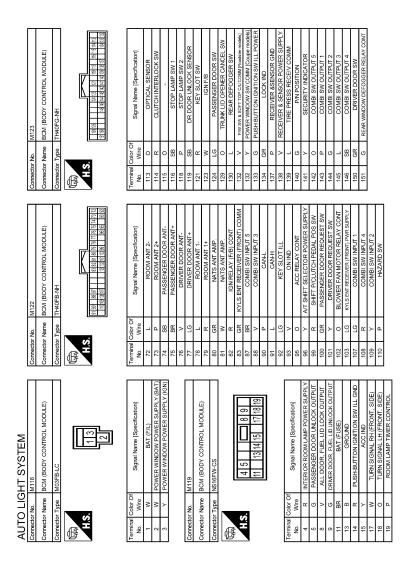
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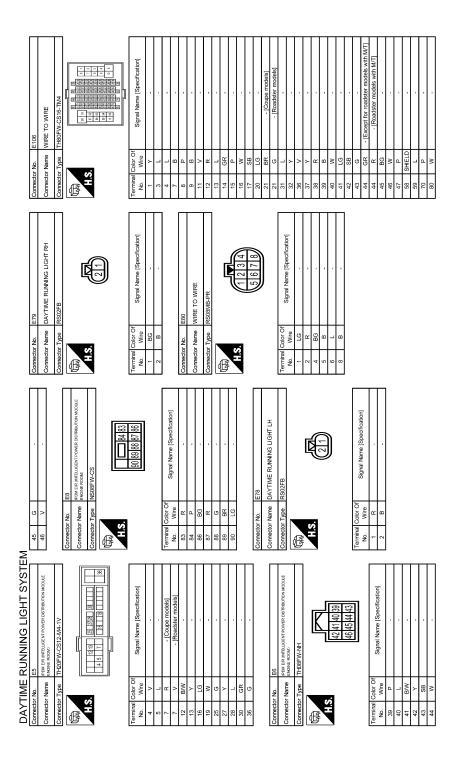
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JRLWD7869GB

DAYTIME RUNNING LIGHT SYSTEM

Α Wiring Diagram INFOID:0000000010840549 В To CAN system ⟨FD⟩: With front door satellite sensor ⟨XD⟩: Without front door satellite sensor C 15A 50 D CPU 15A 51 ¥ Е DATA LINE ⟨CP⟩: Coupe models
⟨RS⟩: Roadster models DAYTIME RUNNING LIGHT RH F 6 14 DATA LINK CONNECTOR (M24) E180 (E80) FRONT FOG LAMP RELAY G 15A 58 Н - Till (19) FUSE BLOCK (J/B) (M1), (M2), (M3) ECM M107 J 6 IGNITION SWITCH ON or START 40 4 OPTICAL SENSOR (M94) 2 COMBINATION METER (M53), (M54) K 10A EXL DAYTIME RUNNING LIGHT SYSTEM 10 10 BCM (BODY CONTROL MODULE) (M118), (M119), (M122), - MS55 (MS55) M 9 40 10 8 KEY SLOT Ν COMBINATION SWITCH ₽ 10 10 91 Me 106 0 <u>₩</u> BATTERY 2014/05/12 Р



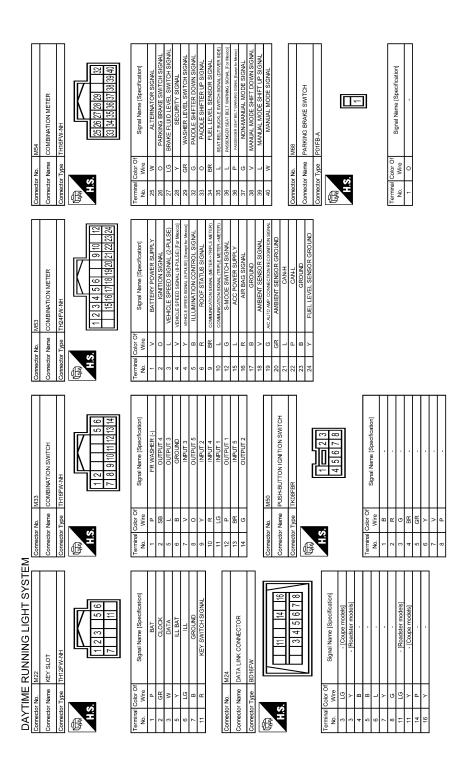
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DAYTIME RUNNING LIGHT SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

		Α
In MATT		В
. (With M7]		С
21 R R 331 BR R 85 S B		D
Sgral Name [Specification] O WIRE Sgral Name [Specification]		E F
Name FLSE B NS12FV NS12FV NS12FV NS12FV NS12FV NS12FV NW/re C C C C C C C C C C C C C C C C C C C		G
Cornector No.		Н
Signal Name [Specification] Signal Name [Specification]		I
MI PLUSE B INSOBER		J
Corrector No. M1 Corrector No. M1 Corrector No. M2 Corrector No. M2 A		K
SHT SYSTEM edification		EXL
Part		M
State Connector Name Connector Nam		Ν
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Revision: 2014 September EXL-45 2015 370Z



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DAYTIME RUNNING I	IG LIGHT SYSTEM	Σ								
Connector No. M94		117	>	DATA LINK CONNECTOR	4 R	PUSH-BUTTON IGNITION SW ILL GND	Termina	Ferminal Color Of	Signal Name [Specification]	
Connector Name OPTICAL SENSOR	NSOR	121	9 0	EVAP CANISTER VENT CONTROL VALVE	15 Y	TIIDN SIGNAL BH (FBONT SIDE)	2	- wire	BOOM ANT 2	
Connector Type TK03FW		123	. @	ECM GROUND	+	TURN SIGNAL LH (FRONT, SIDE)	73		ROOM ANT 2+	
7		124	В	ECM GROUND	H	ROOM LAMP TIMER CONTROL	74	SB	PASSENGER DOOR ANT-	
		125	œ	POWER SUPPLY FOR ECM			75	æ	PASSENGER DOOR ANT+	
-		126	BR	ASCD BRAKE SWITCH			9/	>	DRIVER DOOR ANT-	
113		127	В	ECM GROUND	Connector No.	M121	7.7	97	DRIVER DOOR ANT+	
	1 2 3	128	В	ECM GROUND	Connector Name	BCM (BODY CONTROL MODULE)	78	_	ROOM ANT 1-	
						\neg	79	œ	ROOM ANT 1+	
			-		Connector Type	TH40FGY-NH	8	GR	NATS ANT AMP.	
-		Connector No.		M118	Q		81	≽	NATS ANT AMP.	
al Color Of	Signal Name [Specification]	Connecto	Connector Name	BCM (BODY CONTROL MODULE)	手		85	۲ ا	IGN RELAY (F/B) CONT	
No. wire	all/wich	Constant Time	Т	C agom	H.S.		2 63	¥ 8	KYLS ENT RECEIVER (FRONT) COMM	
> 0	OITEIT	200	٦.	MOST B-EC		39 38 35 34	8	ś >	COMPLEX INPUTS	
3 E	GROUND	Œ	_			6766 64 6160 1 22	8 8	۰ ۵	CANL	
							91	_	CAN-H	
		Š	<i>,</i> ,				92	9	KEY SLOT ILL	
Connector No. M107					Terminal Color Of	from Consideration	93	>	ON IND	
MOE Complete Name				7	No. Wire	orginal refine [opecification]	92	0	ACC RELAY CONT	
Collinector ivaline Ecovi]	34 G	LUGGAGE/TRUNK ROOM ANT-	96	٨	A/T SHIFT SELECTOR POWER SUPPLY	
Connector Type RH24FGY-RZ8-R-LH-Z	'8-R-LH-Z				35 R	LUGGAGE/TRUNK ROOM ANT+	66	ч	SHIFT P/CLUTCH PEDAL POS SW	
		Terminal	Color Of	Cinnal Name Constitution	38 B	REAR BUMPER ANT-	100	GR	PASSENGER DOOR REQUEST SW	
		Š	Wire	orginal realite [Openication]	39 W	REAR BUMPER ANT+	101	\	DRIVER DOOR REQUEST SW	
2 E	128 124 112 108 104 100	-	Χ	BAT (F/L)	47 V	IGN RELAY (IPDM E/R) CONT	102	0	BLOWER FAN MOTOR RELAY CONT	
	123 107	2	٨	POWER WINDOW POWER SUPPLY (BAT)	Н	STARTER RELAY CONT	103	PI	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	
128	₩	ო	>	POWER WINDOW POWER SUPPLY (IGN)	_	PUSH SW	107	ГG	COMBI SW INPUT 1	
125	125 121 117 113 109 106 101 97				61 W	BACK DOOR/TRUNK LID DOOR REQUEST SW	108	ч	COMBI SW INPUT 4	
ļ					\dashv	I-KEY WARN BUZZER (ENG ROOM)	109	>	COMBI SW INPUT 2	
-		Connector No.		M119	+	BACK DOOR/TRUNK ROOM LAMP SW	110	۵	HAZARD SW	
Terminal Color Of Signal	Signal Name [Specification]	Connecto	Connector Name	BCM (BODY CONTROL MODULE)	67 GR	BACK DOOR/TRUNK LID OPENER SW				
~	ACCELERATOR PEDAL POSITION SENSOR 1	Connecto	or Tybe	Connector Type NS16FW-CS			Connector No.	Г	M123	
۵	OR PEDAL POSITION SENSOR 2				Connector No.	M122				
7	SENSOR POWER SUPPLY	E	_				Connect	Connector Name	BCM (BODY CONIROL MODULE)	
*	SENSOR GROUND	· ·			Connector Name	BCM (BODY CONTROL MODULE)	Connect	Connector Type	TH40FG-NH	
SB	ASCD STEERING SWITCH		5	1	Connector Type	TH40FB-NH	ą	•		
GR EVAP	OL SYSTEM PRESSURE SENSOR			11 13 14 15 17 18 19	ą		B			
ტ	SENSOR POWER SUPPLY				唐		Ę	7	[
æ	SENSOR GROUND				Ě	K	Ĭ	9	21 21 21 21 21 21 21 21 21 21 21 21 21 2	
_	REFRIGERANT PRESSURE SENSOR				2	[51 82 82 83 83 84 85 85 85 85 85 85 85 85 85 85 85 85 85				
≥ 6	FUEL TANK TEMPERATURE SENSOR	Terminal	Color Of	Signal Name [Specification]		111 116 118 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_		
¥:	OR POWER SUPPLY	NO.	wire							
>	SENSOR GROUND	4	œ	INTERIOR ROOM LAMP POWER SUPPLY						
o	PNP SIGNAL	S	o	PASSENGER DOOR UNLOCK OUTPUT			Termina	Ferminal Color Of	Signal Name [Specification]	
œ		∞	>	ALL DOOR, FUEL LID LOCK OUTPUT			ė.	Wire		
SB SB	SENSOR GROUND	တ	o	DRIVER DOOR, FUEL LID UNLOCK OUTPUT			113	0	OPTICAL SENSOR	
<u> </u>	CAN COMMUNICATION LINE	=	æ	BAT (FUSE)			114	ď	CLUTCH INTERLOCK SW	
114 L CANCO	OMMUNICATION LINE	13	Ф	GROUND			115	0		

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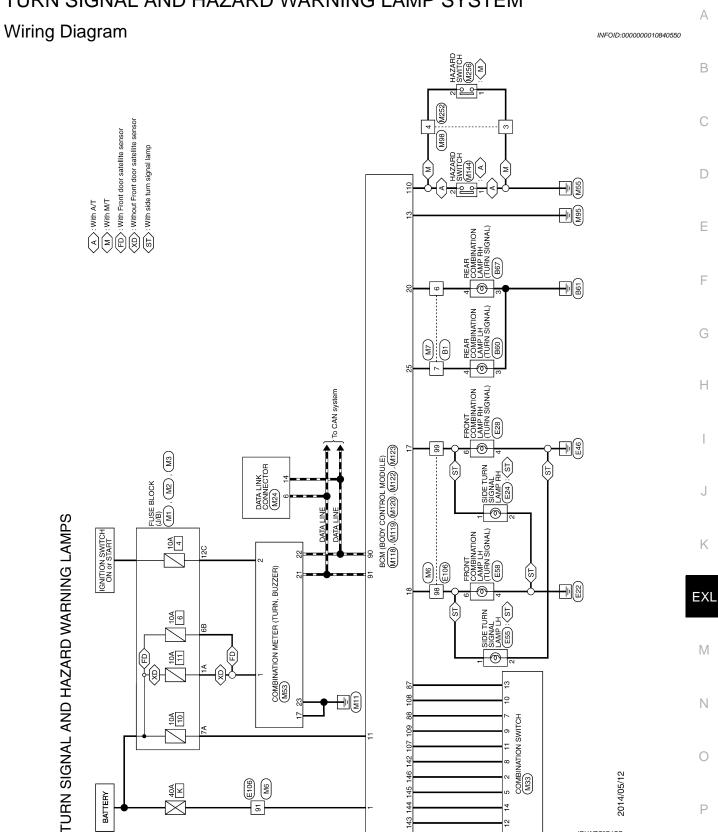
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DAY	TIME	DAYTIME RUNNING LIGHT SYSTEN	듦
116	SB	STOP LAMP SW 1	
118	Ь	STOP LAMP SW 2	
119	SB	DR DOOR UNLOCK SENSOR	
121	ď	KEY SLOT SW	
123	×	IGN F/B	
124	97	PASSENGER DOOR SW	
129	0	TRUNK LID OPENER CANCEL SW	
130	7	REAR DEFOGGER SW	
132	۸	P/W SW & SOFT TOP C/U COMM [Roadster models]	
132	≻	POWER WINDOW SW COMM [Coupe models]	
133	9	PUSH BUTTON IGNITION SW ILL POWER	
134	GR	LOCK IND	
137	Ь	RECEIVER &SENSOR GND	
138	۸	RECEIVER & SENSOR POWER SUPPLY	
139	7	TIRE PRESS RECEIV COMM	
140	9	P/N POSITION	
141	Υ	SECURITY INDICATOR	
142	0	COMBI SW OUTPUT 5	
143	Ь	COMBI SW OUTPUT 1	
144	9	COMBI SW OUTPUT 2	
145	٦	COMBI SW OUTPUT 3	
146	SB	COMBI SW OUTPUT 4	
150	GR	DRIVER DOOR SW	
151	9	REAR WINDOW DEFOGGER RELAY CONT	

JRLWD7864GB

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM



TUR	N SIG	TURN SIGNAL AND HAZARD WARNING LAMPS	NING	3 LAN	/PS		
Connector No.	or No. B	31	45	Н		Connector No. B60	Connector No. E24
Connect	Connector Name W	WIRE TO WIRE	64 43	 H	000	Connector Name REAR COMBINATION LAMP LH	Connector Name SIDE TURN SIGNAL LAMP RH
Connect	or Type Ti	Connector Type TH80FW-CS16-TM4	45	+		Connector Type RS06FGY-PR	Connector Type RK02FGY
<u>(</u>			46	SB	B - [Roadster models]		
N I	V	9 8 8	47	\Box		70	
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			16	\$	- 075) 	
Termina	Terminal Color Of		8	2 >		Terminal Color Of	Terminal Color Of
g	Wire	Signal Name [Specification]	9	H		No. Wire Signal Name [Specification]	No. Wire Signal Name [Specification]
-	9		62	S	- ·	- ·	
2	BG	•	63	BR BR			2 B -
က	>		8	1		+	
4	>	1	92	ઝ	ITD	+	-
9	> !		99	٠ ـ		+	Connector No. E28
_	9		67	7		- BG	Connector Name FRONT COMBINATION LAMP RH
œ	GR.		89	ά		Ī	
ο ;	8,		9 6	+		1	Connector Type RS06FGY-PR
F	× ;		2	+		Connector No. Bb/	d)
12	> 8		7 2	> 0		Connector Name REAR COMBINATION LAMP RH	A STATE OF THE PARTY OF THE PAR
14	<u>"</u>		1 5	+		Connector Type RS06EGV.PR	H.S.
5	3 @		74	+	- m	1	
16	>		75	┝			8 9 9
17	œ		80	Α (J))
18	В	-	81	R	-	(3)6 2)	
20	SB		82	Н			la
21	9	-	83	-			No. Wire
22	æ		8	υ)	+
23	>		8	+	- [Roadster models]		_
24	8		82	7	·	la la	+
32	1		88	+		1	+
50	a. 3		87	8 8	nr c	9] c	7 BR
١	A .		8 3	+		٤١	\dashv
34	SHELD		88 8	× (*	- [Boardstar modele]	2 00	
5			⁵	+		> 0	
25 55	20 0		g 5	+		- BG	
8	3	- Coupe models	S S	5 5	- [Coupe models]	T	
3 %	e ce	- Lyoqqata Hoqqad	8	+		T	
32		- [Roadster models]	26	\ \ \			
32	3	- [Coupe models]	86	×	/ Coupe models	T	
36	В		86	3 Y/B			
9	>		66	9 1			
41			100	0 B			

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

[XENON TYPE] < WIRING DIAGRAM >

	А
Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	В
MZ MS 12F USE B NS12FP	С
Corrector No. M2 Corrector Name F USE BLOCA Terminal Color Of Signs Signs Corrector No. M3 Corrector No. M3 Corrector No. Wire Signs Corrector No. Wire Signs Corrector No. Wire Signs Terminal Color Of No. Wire Signs Corrector No. Wire Signs Corrector No. Wire Signs Terminal Color Of No. Wire Signs Corrector No. Wire Signs Terminal Color Of No. Wire Signs Corrector No. Wire Signs Terminal Color Of No.	D
	E
M1 FUSE BLOCK (JB) NSOGENV-M2 Signal Name (Specification)	F
S	G
	Н
Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	I
- 1의 뜻 1위	J
Connector Name Conn	К
ARD WAR infrastron) WAP LH WAP LH	EXL
Signel Name Specification Signel Name Specification	М
TURN SIGNAL AND HAZARD WARNING LAMP E45	N
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EXL-51 2015 370Z Revision: 2014 September

ĒΙ	SN SIG	TURN SIGNAL AND HAZARD WARNING LAMPS	킭	LAMI	Sc						
Conne	Connector No.	M6	83	>	,	23	۸		88	SB	
0000	Connector Name	EDIM OT BOW	84	_		24	R		83	\	•
			85	BR		52	L		96	٦	- [Roadster models]
Conne	Connector Type	TH80MW-CS16-TM4	86	Υ	•	26	Ь		94	SB	- [Coupe models]
4			87	ŋ		27	В	-	95	GR	- [Coupe models]
	•		89			28	SHIELD		92	Μ	- [Roadster models]
\	ſ		91	Μ	•	31	W	-	96	٦	1
1	ρį		92	۵		32	В		26	PT	- [Coupe models]
			93	۵		33	Μ	-	26	>	- [Roadster models]
		01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	>		34	ď		86	BG	- [Coupe models]
			96	۵		35	8		86	Y/B	- [Roadster models]
			97	ľ		98	_		66	>	
Termin	Terminal Color Of		ő	H		40	-		100	ď	
Ź	Wire	Signal Name [Specification]	66	╀		4	2	-			
-	>		100	┡		42	GR				
~	-			┨		4	۵		Connector No	8	MOA
4	-					44	2				
1			2	Commontos No	247	*	2 0		Connect	Connector Name	DATA LINK CONNECTOR
- (٥		3	SCIOI NO.	IM/	ş					
Φ	1		Conne	Connector Name	WIRE TO WIRE	46	و		Connect	Connector Type	BUIBHW
တ	В					46	SHELD	- [Coupe models]	ą	•	
=	GR		Conne	Connector Type	TH80MW-CS16-TM4	47	Я	-	F		
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

M118 Connector No. M120 Connector No. M120 Connector Name BCM (BODY CONTROL MODULE) M03FB-LC Connector Type NS12FW-CS Connector Type NS12	113 H.S. 25 13 25 13 25 13 25 13 25 25 25 25 25 25 25 2	Signal Name (Specification) No. Wire Signal Name (Specification) No. Wire Signal Name (Specification) No. Wire No. TURN SIGNAL RH (REAR) No. TURN SIGNAL RH (REAR) No. N	24 O REAR FOG OUTPUT 25 LG TURN SIGNAL LH (REAR) 25 LG TURN SIGNAL LH (REAR) 20 R LUGGAGETRUNK ROOM LAMP OUTPUT 80M (80DY CONTROL MODULE) 24 C C C C C C C C C C C C C C C C C C		4 5	Signal Name (Specification) Signal Name (Specification)	PASSENGER DOOR UNLOCK OUTPUT Terminal Color Of Signal Name (Specification) ALL DOOR, FUEL LID LOCK OUTPUT 72 L ROOM ANT 2- ROOM ANT 2-	73 P 74 SB	ND 75 BR P/	7/ LG UP	ROOM LAMP TIMER CONTROL 79 R ROOM ANT 1+ 80 GR NATS ANT AMP.	> a	GR KYLS E		
SOMMANCATION SIGNAL TRIPLE METRO-METRO) SANDOES SWITCH SIGNAL ACC POWER SUPPLY AIR BAG SIGNAL Corrector Name SIROLNA AMBIENT SENSORAL [Manual Corrector Type Corrector Typ	G ACAJIO ANP CONNECTION RECOGNITION SIGNAL GRANN GROUND L CANH P CANH F GROUND STELLEVEL SENSOR GROUND FUELLEVEL SENSOR GROUND	Terminal Color Of Terminal Color Of No. Wire Wir	Connector Type TH08FW.NH Connector No. In Connector No. In Connector No. In Connector No. In Connector Name E	8 7 6 5	Terminal Coder Of Signal Name (Specification) H.S. Wree 1 B	3 GR	7 B · · · · 5 · C · · · · · · · · · · · · ·	B B	+	1/ W	19 P				
Connector No. M33 110 L L A Connector No. M33 110 L L A CONNECTOR COMBINATION SWITCH 115 L L CONNECTOR THISFWAM 116 R R 117 B R V R R R 118 V R R R 118 V R R R R R R R R R R R R R R R R R R	H.S. 112 156 7 8 9 10 11 12 13 14	Terminal Color Of Signal Name (Specification) No. Wire Wire Signal Name (Specification) 1 P FR WASHER (-) 2 SB OUTPUT 4 5 1 OUTPUT 3	6 B GROWD 7 V INPUT 3 8 O OUTPUT 6 9 Y INPUT 2	LG INPUT PD OUTPL	14 G OUTPUT 2		123456	15 16 17 18 19 20 21 22 23 24	Terminal Color Of Signal Name [Specification]		2 O IGNITION SIGNAL (2-PULSE)	4 V VEHICLE SPEED SIGNAL (8-PULSE) [For Mexico]	- 60 0	9 BR COMMUNICATION SIGNAL (METER>TRIPLE METER)	

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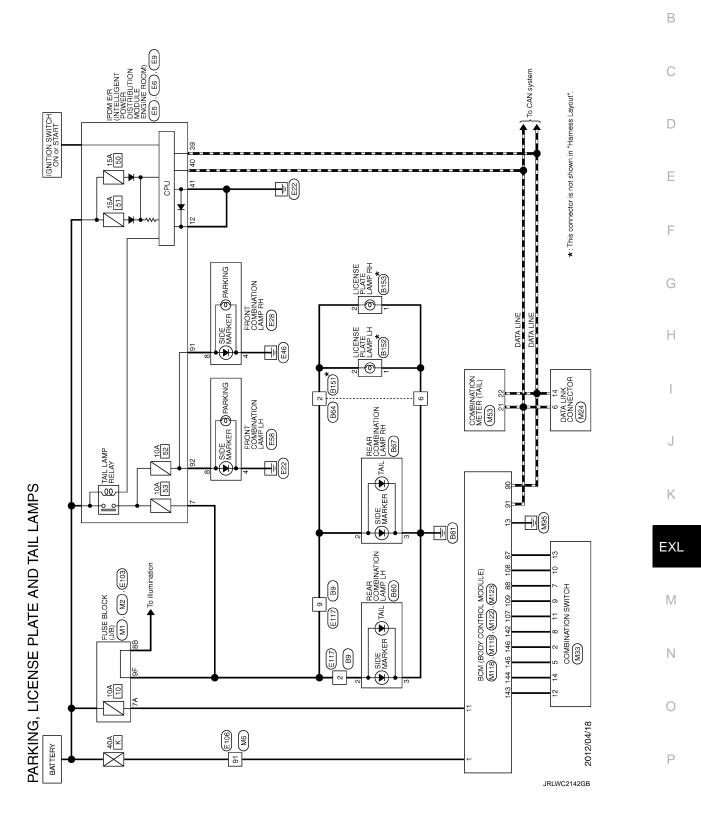
	- 6 -	8 6			Connector No. M256	Competer Name HAZABD SWITCH		Connector Type TK04FW	¢			7 0	3 1 2 4		Terminal Color Of	e Signal N	1 B GROUND	2 G BCM		BG	4 O ILL-[Noauster mouels]																								
S SECURITY INDICATOR	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	DRIVER DOOR SW	REAR WINDOW DEFOGGER RELAY CONT			M144	HAZARD SWITCH		I KU4FW	[3 1 2 4				Signal Name [Specification]	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GROUND	BCM	111-	111	More	M25Z	WIRE TO WIRE	TH08MW-NH		E		1 2 3 1	<u>၉</u>	5 6 7 8			Cincipositional Name (Securition)	olgrial Name [opecification]	- [Coupe models]	- [Roadster models]		•		
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TURN SIGNAL AND HAZARD WARNING LAMPS	CAN-H	KEY SLOT ILL	ON IND	ACC RELAY CONT	A/T SHIFT SELECTOR POWER SUPPLY	SHIFT P/CLUTCH PEDAL POS SW	PASSENGER DOOR REQUEST SW	DRIVER DOOR REQUEST SW	BLOWER FAN MOTOR RELAY CONT	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	COMBI SW INPUT 1	COMBI SW INPUT 4	COMBLEW INPULZ		M123	Connector Name BCM (BODY CONTROL MODULE)		Connector Type TH40FG-NH				130 ES 120 120 130 130 130 130 130 130 130 130 130 13	डिन डिन			Signal Name [Specification]	000000000000000000000000000000000000000	CLITCH INTERLOCK SW		STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	TRUNK LID OPENER CANCEL SW	REAR DEFOGGER SW	P/W SW & SOFT TOP C/U COMM [Roadster models]	POWER WINDOW SW COMM [Coupe models]	PUSH BUTTON IGNITION SW ILL POWER	LOCK IND	RECEIVER &SENSOR GND	RECEIVER & SENSOR POWER SUPPLY	TIRE PRESS RECEIV COMM	1101210001110
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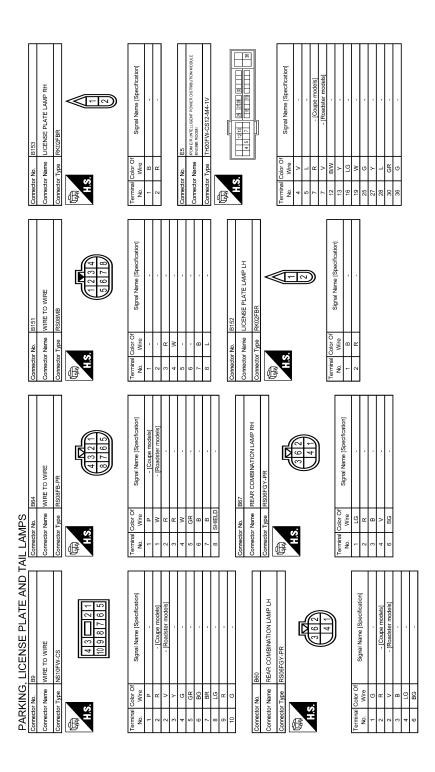
JRLWD7879GB

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram

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JRLWD7885GB

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

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Revision: 2014 September EXL-57 2015 370Z

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a.			85	>	•	11	97	- [Roadster models]	
┞	Connector No.	r No.	8	>		=	>	- [Coupe models]	
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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

Connector No. Connector No	Connector No. M123	e e						Terminal Color Of Signal Name [Specification]	0	114 R CLUTCH INTERLOCK SW	+	۵.	- SB DR DO	Z.	123 W IGN F/B	21 0	, ,	132 V P/W SW & SOFT TOP C/U COMM [Roadster models]	>	G PUSHBUTTON	S.	137 P RECEIVER & SENSOR GND 138 V RECEIVER & SENSOR POWER SIPPI V	_	140 G P/N POSITION	>-	0	143 P COMBI SW OUTPUT 1	0 -	- SS	GR	151 G REAR WINDOW DEFOGGER RELAY CONT				
Commetter No. Mile			ì			37	II			1							<u> </u>			3							_ Т	1. T.	L			COMBI SW INPUT 2	HAZARD SW		
Commetter Name Comm		e e		ı	J.		_	Terminal Color Of No. Wire	Н	+	+	H	Н	+	+	t	+	Н	Н	+	+	+	╁	Н	\dashv	+	+	+	F	H	H	L	L		
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(N				MAGO	COMBINATION METER	TH24FW-NH		3 4 5 6	17 18 19 20		:	Signal Name [Specification]	BATTERY POWER SUPPLY	IGNITION SIGNAL	VEHICLE SPEED SIGNAL (2-PULSE)	VEHICLE SPEED SIGNAL (9-PULSE) [FOI MEXICO]	ILLUMINATION CONTROL SIGNAL	ROOF STATUS SIGNAL	COMMUNICATION SIGNAL (METER->TRIPLE METER)	COMMUNICATION SIGNAL (TRIPLE METER->METER)		ACC POWER SUPPLY AIR BAG SIGNAL	GROUND	AMBIENT SENSOR SIGNAL	AIC AUTO AMP, CONNECTION RECOGNITION SIGNAL.	AMBIENT SENSOR GROUND	CAN-H	GROUND	FUEL LEVEL SENSOR GROUND						
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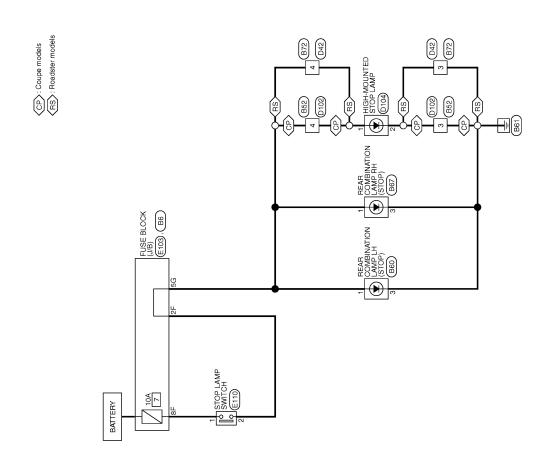
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Revision: 2014 September EXL-59

STOP LAMP

Wiring Diagram



STOP LAMP

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Cornector No. D102 Cornector Name WIRE TO WIRE Cornector Type T104FW-Nati	Terminal Color Of No. Signal Name (Specification)	Corrector No. D104 Corrector Type HGH-MOUNTED STOP LAMP Corrector Type TR02FW	Terminal Color Of Signal Name (Specification) No. Wire 1 LG 2 B
Corrector No. B72 Corrector Name WIRE TO WIRE Corrector Type NSUAMW.CS	Terminal Color Of Signal Name (Specification) No. Wire 3 L 4 LG	Corrector No. D42 Corrector Name WIRE TO WIRE Corrector Type NS04FW-C5	Terminal Color Of Nore Signal Name (Specification) 3 B
Connector No. BB0 Connector Name REAR COMBINATION LAMP LH Connector Type RSUGEGY-PR	1 2 2 2 2 2 2 2 2 2	3 8	Signal Name Specification
STOP LAMP Corrector No. B6 Corrector Name FUSE BLOCK (J/B) Corrector Type NST2FBR.CS	Mire Sign W W W G	100 W - (Coupe models) 120 Y - (Coupe models)	Terminal Color Of No. Wire Signal Name [Specification]

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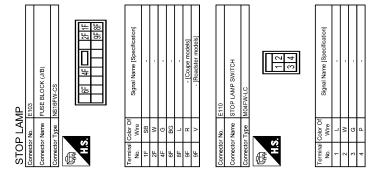
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BACK-UP LAMP

Wiring Diagram

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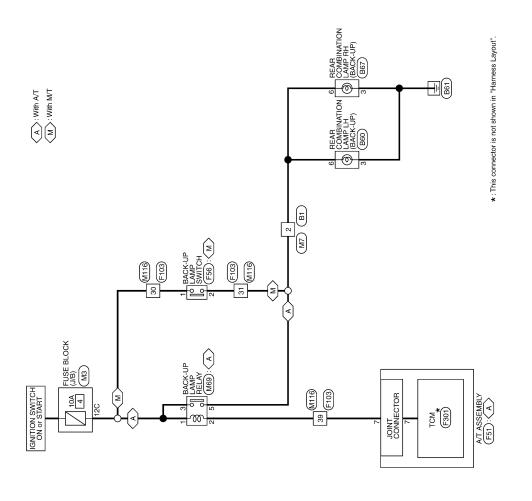
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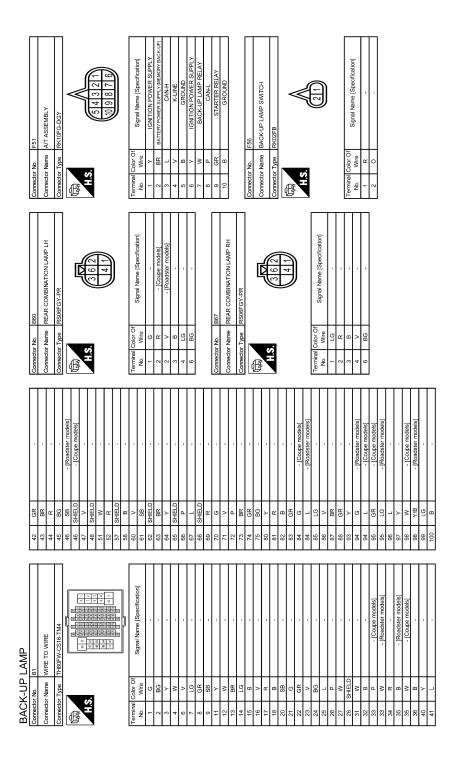
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BACK-UP LAMP

2014/05/12

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Cooperation	63 RHELD	
Cornector No. M7 Cornector Name WIRET O WIRE Cornector Type TH80MW-CS16-TM4 H.S. I I I I I I I I I I I I I I I I I I	Terminal Color Of No. 1	
<u></u>	10 W/B GROLND 10 WB Corrector No. M3 Corrector Type NS172FW.CS Corrector Type NS172FW.CS M3 M3 M3 M3 M3 M3 M3 M	
BACK-UP LAMP Corrector No. F103 Corrector Name WIRE TO WIRE Corrector Type Trade-WAS10 H.S. ESTERAGISTED STREET	Terminal Cubic Of Nutre Signal Name Specification 2	
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EXL-65 Revision: 2014 September 2015 370Z

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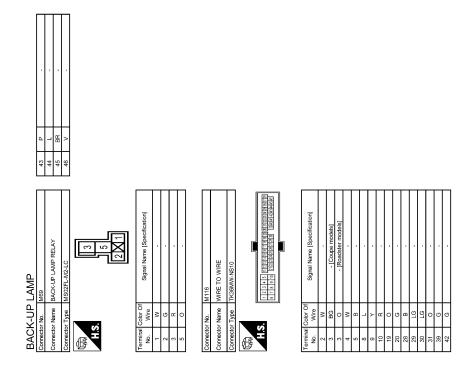
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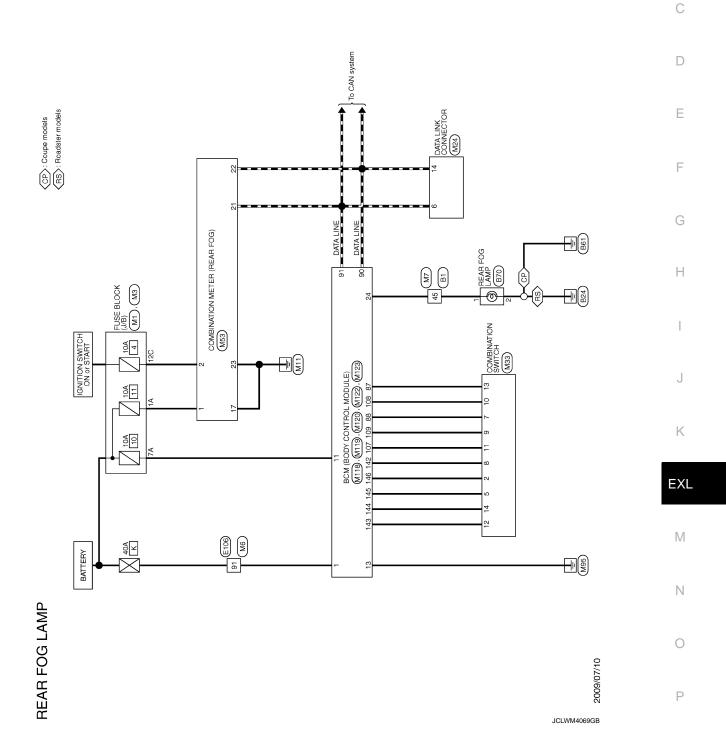
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REAR FOG LAMP SYSTEM

Wiring Diagram

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Revision: 2014 September EXL-67 2015 370Z

REAR F	REAR FOG LAMP	42	200		Connector No	No R70		33	>		
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Connector	Connector Name WIRE TO WIRE	3 4	+		Connector Name		REAR FOG LAMP	37	> >		
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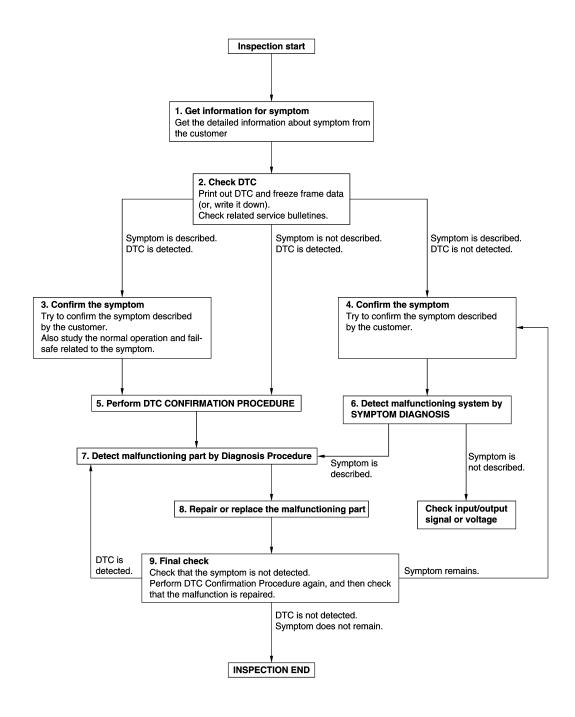
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

[XENON TYPE] < BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

- 1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
- 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.)
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 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.

${f 3.}$ 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.

f 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

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

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-44, "Intermittent Incident".

$oldsymbol{6}$.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-

.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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EXL-73 Revision: 2014 September 2015 370Z

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > [XENON TYPE]

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.
- 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.

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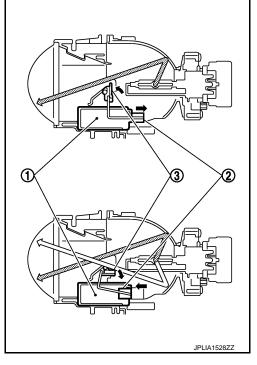
DTC/CIRCUIT DIAGNOSIS

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 automati-



Component Function Check

1. CHECK HEADLAMP (HI) OPERATION

RIPDM E/R AUTO ACTIVE TEST

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

PCONSULT ACTIVE TEST

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

Ηi : 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

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

PCONSULT ACTIVE TEST

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

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< DTC/CIRCUIT DIAGNOSIS >

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

	_	Terminals		Test item		
(+)			(-)	rest item	Voltage	
IPDM E/R			EXTERNA		(Approx.)	
Connector Termi		Terminal		LAMPS		
RH		89	Ground	Hi	Battery voltage	
IXII	E8			Off	0 V	
LH	LO	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 comb	Continuity	
Connector		Terminal	Connector	Terminal	Continuity
RH	E8	89	E28	7	Existed
LH	20	90	E58	7	LAISIEU

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

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

	IPDN	/I E/R		Continuity	
Conr	nector	Terminal	Ground	Continuity	
RH	E8	89	Glound	Not existed	
LH	20	90		Not existed	

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

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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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

1. CHECK HEADLAMP (LO) OPERATION

PIPDM 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.

PCONSULT 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

1.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

PCONSULT ACTIVE TEST

- 1. Turn the ignition switch OFF.
- 2. Disconnect the front combination lamp connector.
- Turn the ignition switch ON.
- 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		
(+)			(-)	rest item	Voltage (Approx.)	
IPDM E/R				EXTERNAL		
Connector		Terminal		LAMPS		
RH		83	Ground	Lo	Battery voltage	
IXII	E8			Off	0 V	
LH	LO	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

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

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< DTC/CIRCUIT DIAGNOSIS >

IPDM E/R			Front comb	Continuity	
Con	nector	Terminal	Connector	Terminal	Continuity
RH	E8	83	E28	5	Existed
LH	LO	84	E58	5	LAISIEU

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.

	IPDN	И E/R		Continuity	
Conr	nector	Terminal	Ground	Continuity	
RH	E8	83	Glound	Not existed	
LH	EO	84		Not existed	

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.

F	ront comb	ination lamp		Continuity	
Connector Terminal			Ground	Continuity	
RH	E28	3	Glound	Existed	
LH	E58 3			LAISIEU	

Does continuity exist?

YES >> Perform the xenon headlamp diagnosis. Refer to <a>EXL-79, "Description".

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XENON HEADLAMP

Description INFOID:000000010840564

OUTLINE

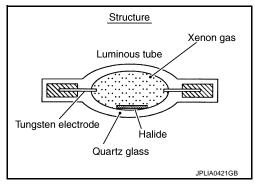
- The lamp light source is by the arch discharge by applying high voltage into the xenon gas-filled bulb instead
 of the halogen bulb filament.
- Sight becomes more natural and brighter because the amount of light are gained adequately and the color of light is sunshine-like white.
- The xenon bulb drops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

ILLUMINATION PRINCIPLE

- Discharging starts in high voltage pulse between bulb electrodes.
- 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

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?

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XENON HEADLAMP

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

YES >> Replace HID control unit.

NO >> GO TO 3.

$3. \mathsf{CHECK}\ \mathsf{XENON}\ \mathsf{HEADLAMP}\ \mathsf{HOUSING}\ \mathsf{ASSEMBLY}$

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

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

DAYTIME RUNNING LIGHT CIRCUIT

Component Function Check

INFOID:0000000010840566

${f 1}$.CHECK DAYTIME RUNNING LIGHT OPERATION

PIPDM E/R AUTO ACTIVE TEST

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

(P)CONSULT ACTIVE TEST

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

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

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Is the daytime running light turned ON?

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

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Diagnosis Procedure

${f 1}$.CHECK DAYTIME RUNNING LIGHT FUSE

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- Turn the ignition switch OFF.
- 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

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

	IPDM E	'R		Continuity	
Conr	Connector		Ground	Continuity	
RH	E8	86	Ground	Not existed	
LH	E0	87		Not existed	

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Does continuity exist?

YES >> Repair the harnesses or connectors. And then replace the fuse.

>> Replace the fuse. (Replace IPDM E/R if the fuse is fusing again.) NO

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.

f 4.CHECK DAYTIME RUNNING LIGHT OUTPUT VOLTAGE

PCONSULT ACTIVE TEST

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

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DAYTIME RUNNING LIGHT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

2015 370Z

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

	T	erminals		Test item		
(+)			(-)	iest item	Voltage	
	IPDM E/R			EXTERNAL	(Approx.)	
Coi	Connector Terminal			LAMPS		
RH	E8	86	Ground	Fog	Battery voltage	
				Off	0 V	
LH				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 rur	Continuity	
Conr	Connector Terminal		Connector	Terminal	Continuity
RH	E8	86	E79	1	Existed
LH	LO	87	E78	1	LAISIEU

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.

Da	aytime runni	ng light		Continuity
Connector		Terminal	Ground	Continuity
RH	E79	2	Giodila	Existed
LH	E78	2		EXISTECT

Does continuity exist?

YES >> Refer to GI-44, "Intermittent Incident".

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

PARKING LAMP CIRCUIT

Component Function Check

INFOID:0000000010840568

1. CHECK PARKING LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

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

(P)CONSULT ACTIVE TEST

- Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- With operating the test items, check that the parking lamp is turned ON.

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TAIL : Parking lamp ON Off : Parking lamp OFF

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Is the parking lamp turned ON?

YES >> Parking lamp circuit is normal.

>> Refer to EXL-83, "Diagnosis Procedure". NO

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Diagnosis Procedure

INFOID:0000000010840569

1. CHECK PARKING LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Parking lampFront 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

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

IPDM E/R				Continuity	
Connector		Terminal	Ground	Continuity	
RH	E9	91	Giodila	Not existed	
LH	LS	92		Not existed	

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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. Р

4. CHECK PARKING LAMP OUTPUT VOLTAGE

(P)CONSULT ACTIVE TEST

- Disconnect the front combination lamp connector.
- 2. Turn the ignition switch ON.
- Select "EXTERNAL LAMPS" of IPDM E/R active test item.

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PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

2015 370Z

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

	٦	Terminals		Test item		
	(+)		(-)	rest item	Voltage	
IPDM E/R			EXTERNAL	(Approx.)		
Conr	nector	Terminal		LAMPS		
RH		91	Ground	TAIL	Battery voltage	
IXII	E9	91		Off	0 V	
LH	La	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.
- Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

Continuity	ination lamp	Front comb	IPDM E/R		
Continuity	Connector Terminal		Terminal	nector	Conr
Existed	8	E28	91	E9	RH
LAISIEU	8	E58	92	L9	LH

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

O.CHECK PARKING LAMP GROUND OPEN CIRCUIT

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

F	ront comb	ination lamp		Continuity	
Connector Terminal		Ground	Continuity		
RH	E28	4	Glound	Existed	
LH	E58	4		LAISIEU	

Does continuity exist?

YES >> Replace the front combination lamp.

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

TURN SIGNAL LAMP CIRCUIT

Description INFOID:000000010840570

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

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1. CHECK TURN SIGNAL LAMP

PCONSULT ACTIVE TEST

- 1. Select "FLASHER" of BCM (FLASHER) active test item.
- 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.

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2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

(P)CONSULT ACTIVE TEST

- 1. Turn the ignition switch OFF.
- 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.
- With operating the turn signal switch, check the voltage between the BCM harness connector and the ground.

Front/side

	Terminals					
	(+)		(–)	Test item	Voltage	
	ВСМ			FLASHER	(Approx.)	
Conr	Connector Terminal			ILASIILIX		
511		17 M119		RH	12 V	
KH	M119 LH		Ground	Off	0 V	
		18		LH	12 V	
LII		10		Off	0 V	

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TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

	Te	rminals		Toot it am			
(+) (-			(-)	Test item	Voltage (Approx.)		
	всм			FLASHER	(Approx.)		
Coni	Connector			ILASIILIX			
RH		20	Ground	RH	12 V		
ΝП	M120	20	Giodila	Off	0 V		
				LH	12 V		

Off

Is the measurement value normal?

25

YES >> GO TO 3.

Rear

LH

NO >> Replace BCM.

3.CHECK TURN SIGNAL LAMP OPEN CIRCUIT

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

0 V

Front turn signal lamp

Continuity	ination lamp	Front comb	BCM		
Continuity	Terminal	Connector	Terminal	nnector	Coi
Existed	6	E28	17	M119	RH
LAISIEU	6	E58	18	IVIII	LH

Side turn signal lamp

Continuity	signal lamp	Side turn s	BCM		
Continuity	Terminal	Connector	Terminal	nnector	Coi
Existed	1	E24	17	M119	RH
LXISIEU	1	E55	18	WITIS	LH

Rear turn signal lamp

BCM			Rear comb	Continuity	
Со	nnector	Terminal	Connector Terminal		Continuity
RH	M120	20	B67	4	Existed
LH	101120	25	B60	4	LAISIEU

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				Continuity
Connector T		Terminal	Ground	Continuity
RH	M119	17	Glound	Not existed
LH	IVITIS	18		INOL EXISTED

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

	_	_	

BCM				Continuity
Connector Te		Terminal	Ground	Continuity
RH	M120	20	Giodila	Not existed
LH	IVITZU	25		Not existed

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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				Continuity
Connector Terminal		Ground	Continuity	
RH	E28	4	Glound	Existed
LH	E58	4		LAISIEU

Side turn signal lamp

Side turn signal lamp				Continuity
Connector Terminal		Ground	Continuity	
RH	E24	2	Glound	Existed
LH E55 2			LXISTEG	

Rear turn signal lamp

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

Does continuity exist?

YES >> Replace the front combination lamp, side turn signal lamp or rear combination lamp.

NO >> Repair the harnesses or connectors.

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Revision: 2014 September

OPTICAL SENSOR

Description INFOID.000000010840573

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

(P)CONSULT DATA MONITOR

- 1. Turn the ignition switch ON.
- 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	Optical	When illuminating	3.1 V or more *
SENSOR	sensor	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.

(1	+)	(–)	Voltage
Optica	l sensor		(Approx.)
Connector Terminal		Ground	
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.

(1	+)	(–)	Voltage
Optica	l sensor		(Approx.)
Connector	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

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< DTC/CIRCUIT DIAGNOSIS >

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

Terminals			Condition		
(+)		(–)	Condition	Voltage	
Optical sensor			Optical sensor	(Approx.)	
Connector	Terminal	Ground	Optical Serisor		
M94	2	Ground	When illuminating	3.1 V or more *	
10134	۷		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

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

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

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

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

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

Optica	l sensor		Continuity
Connector Terminal		Ground	Continuity
M94	1		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

$\mathsf{6}.$ CHECK OPTICAL SENSOR GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Replace BCM.

NO >> Repair the harnesses or connectors.

7.CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

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

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Optical sensor		BCM		Continuity
Connector	Terminal	Connector Terminal		Continuity
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			Continuity
Connector	Terminal	Ground	Continuity
M94	2		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

HAZARD SWITCH

Component Function Check

INFOID:0000000010840576

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1. CHECK HAZARD SWITCH SIGNAL BY CONSULT

(E)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	Con	Monitor status	
HAZARD SW	Hazard switch	ON	On
HAZARD SW	Hazard Switch	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	
(+)	(-)	Condition	Voltage
ВС	М		Hazard	(Approx.)
Connector	Terminal		switch	
			ON	0 V
M122	110	Ground	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

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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		Continuity
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.

< DTC/CIRCUIT DIAGNOSIS >

Hazaro	d switch		Continuity
Connector	Connector Terminal		Continuity
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			Continuity
Connector	Terminal	Ground	Continuity
M144	1		Existed

Does continuity exist?

YES >> Replace the hazard switch.

TAIL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

TAIL LAMP CIRCUIT

Component Function Check

INFOID:0000000010840578

1. CHECK TAIL LAMP OPERATION

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■IPDM E/R AUTO ACTIVE TEST

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

(P)CONSULT ACTIVE TEST

- Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- 2. With operating the test items, check that the tail lamp is turned ON.

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: Tail lamp ON Off : Tail lamp OFF

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Is the tail lamp turned ON?

TAIL

YES >> Tail lamp circuit is normal.

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

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Diagnosis Procedure

INFOID:0000000010840579

1. CHECK TAIL LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Tail lamp Rear side marker lamp 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.

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2.CHECK TAIL LAMP OUTPUT VOLTAGE

(P)CONSULT ACTIVE TEST

- Disconnect the rear combination lamp connector.
- Turn the ignition switch ON.
- Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

Terminals			Test item		
(+)		(-)	iest item	Voltage	
IPDM	E/R		EXTERNAL	(Approx.)	
Connector	Terminal	Ground	LAMPS		
E5	7	Giodila	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.

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EXL-93 Revision: 2014 September 2015 370Z

TAIL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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

IPDI		/I E/R	Rear combination lamp		Continuity
Conr	nector	Terminal	Connector Terminal		Continuity
RH	E5	7	B67	2	Existed
LH	E3	1	B60	2	Existed

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				Continuity
Con	Connector Terminal		Ground	Continuity
RH	B67	3	Glound	Existed
LH	B60	3		LAISIEU

Does continuity exist?

YES >> Replace the rear combination lamp.

LICENSE PLATE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

LICENSE PLATE LAMP CIRCUIT

Component Function Check

INFOID:0000000010840580

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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

PIPDM E/R AUTO ACTIVE TEST

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

(P)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.
- Check continuity between the IPDM E/R harness connector and the license plate lamp harness connector.

Continuity	License plate lamp		IPDM E/R		
Continuity	Connector Terminal		Terminal	Connector	
Existed	2	B153	7	E5	RH
Existed	2	B152	7	E3	LH

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Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

${f 3.}$ CHECK LICENSE PLATE LAMP GROUND OPEN CIRCUIT

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

License plate lamp			Continuity	
Coni	nector	Terminal	Ground	Continuity
RH	B153	1	Giouna	Existed
LH	B152	1		LXISIEG

Does continuity exist?

YES >> Replace the license plate lamp.

INFOID:0000000010840582

REAR FOG LAMP CIRCUIT

Component Function Check

1. CHECK REAR FOG LAMP OPERATION

©CONSULT ACTIVE TEST

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

(P)CONSULT ACTIVE TEST

- 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		
(+)	(-)	rest item	Voltage
ВС	М	Ground	RR FOG LAMP	(Approx.)
Connector	Terminal		KKT OO LAWII	
M120	24	Giodila	On	Battery voltage
IVITZU	24		Off	0 V

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace BCM.

3.CHECK REAR FOG LAMP OPEN CIRCUIT

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

ВСМ		Rear fog lamp		Continuity
Connector	Terminal	Connector Terminal		Continuity
M120	24	B70	1	Existed

Does continuity exist?

YES >> GO TO 4.

REAR FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

4. CHECK REAR FOG LAMP SHORT CIRCUIT

Check for continuity between BCM harness connector and the ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
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			Continuity
Connector	Terminal	Ground	Continuity
B70	2		Existed

Does continuity exist?

YES >> Replace the rear fog lamp.

NO >> Repair the harnesses or connectors.

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SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

NOTE:

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

Symp	otom	Possible cause	Inspection item
Headlamp does not switch to the high beam.	One side	 Fuse Harness between IPDM E/R and the front combination lamp Front combination lamp (High beam solenoid) IPDM E/R 	Headlamp (HI) circuit Refer to <u>EXL-75</u> .
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS DO NO Refer to EXL-102.	OT SWITCH TO HIGH BEAM"
High beam indicator lamp (Headlamp switches to the		Combination meter	Combination meter Data monitor "HI-BEAM IND" BCM (HEAD LAMP) Active test "HEADLAMP"
	One side	Front combination lamp (High beam solenoid)	_
Headlamp does not switch to the low beam.	Both sides	Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-102.
		High beam request signal BCM IPDM E/R	IPDM E/R Data monitor "HL HI REQ"
		IPDM E/R	_
Headlamp is not turned ON.	One side	Fuse Xenon bulb Harness between IPDM E/R and the front combination lamp Front combination lamp (xenon headlamp) IPDM E/R	Headlamp (LO) circuit Refer to EXL-77.
	Both sides	Symptom diagnosis	
	When the ignition switch is turned ON	"BOTH SIDE HEADLAMPS (LO) A Refer to <u>EXL-103</u> .	RE NOT TURNED ON"
Headlamp is not turned OFF.	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 Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-102.
		Optical sensor Harness between the optical sensor and BCM BCM	Optical sensor Refer to <u>EXL-88</u> .

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

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

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EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

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

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS > [XENON TYPE]

NORMAL OPERATING CONDITION

Description A

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.

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BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description INFOID:000000010840586

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

(E) 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	HI or PASS	On
TILTITINEQ	(2ND)	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

[XENON TYPE] < SYMPTOM DIAGNOSIS >

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 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

Select "HL LO REQ" of IPDM E/R data monitor item.

With operating the lighting switch, check the monitor status.

Monitor item	Con	Monitor status	
HL LO REQ	Lighting switch	2ND	On
TIL LO NEQ	Lighting Switch	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.

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EXL-103 Revision: 2014 September 2015 370Z

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

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

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

Description INFOID:000000010840590

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

(P)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
TAIL & OLK KLQ	Lighting Switch	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.

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PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Description INFOID:0000000010840592

PREPARATION BEFORE ADJUSTING

- 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.

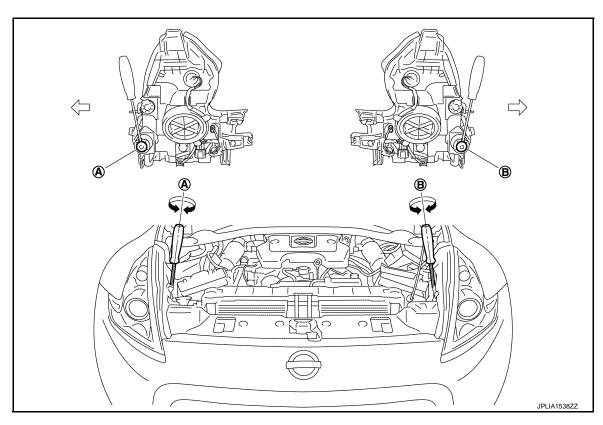
Wipe out dirt on the headlamp.

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

EXL-105 Revision: 2014 September

	Adjustment screw	Screw driver rotation	Facing direction
В	Headlamp (LH)	Clockwise	UP
		Counterclockwise	DOWN

Aiming Adjustment Procedure

INFOID:0000000010840593

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:

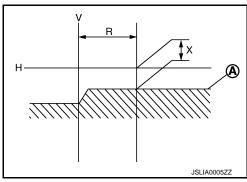
Shut off the headlamp light with the board to prevent from illuminating the adjustment screen. **CAUTION:**

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 \pm 175 mm (13.78 \pm 6.89 in)

Low beam distribution on the screen

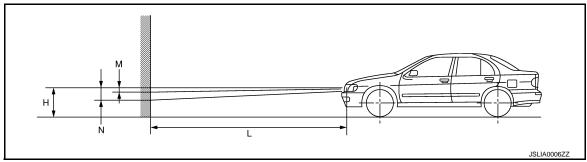


 Adjust the cutoff line height with the aiming adjustment screw so as to enter in the adjustment range (M– N) according to the horizontal center line of headlamp (H).

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 : 10 m (32.8 ft) and the screen (L)

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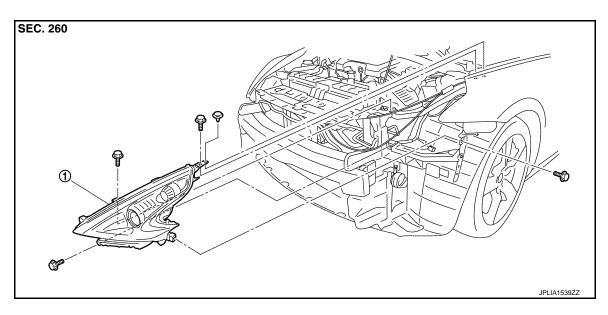
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REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

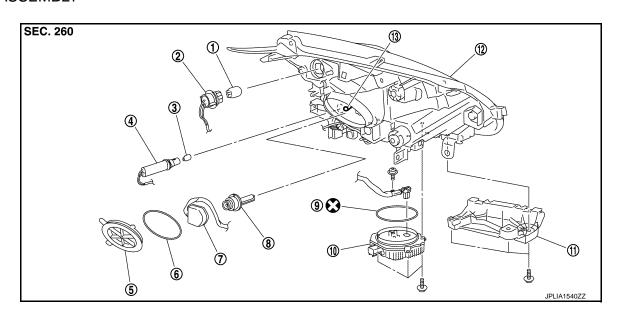
Exploded View INFOID:0000000010840594

REMOVAL



Front combination lamp

DISASSEMBLY



- Front turn signal lamp bulb
- 4. Parking lamp bulb socket
- Xenon bulb socket 7.
- HID control unit 10.
- 13. Retaining spring

- 2. Front turn signal lamp bulb socket
- Resin cap 5.
- 8. Xenon bulb
- 11. Bumper bracket

- 3. Parking lamp bulb
- 6. Seal packing
- 9. Seal packing
- 12. Headlamp housing assembly

: Always replace after every disassembly.

< REMOVAL AND INSTALLATION >

Removal and Installation

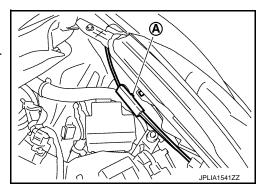
INFOID:0000000010840595

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.
- 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 <u>EXL-105</u>, "<u>Description</u>".
- After installation, check that headlamp lighting. Refer to EXL-109, "Inspection After Installation (HID Control Unit)".

Replacement INFOID:000000010840598

CAUTION:

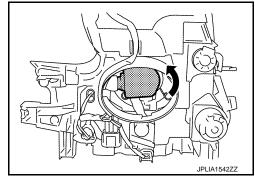
- Disconnect the battery negative terminal or remove the fuse.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- · Never touch bulb by hand while it is 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 <u>EXT-35</u>, "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

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

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

FRONT TURN SIGNAL LAMP BULB

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

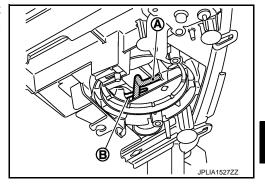
- 1. Rotate the resin cap counterclockwise and unlock it.
- 2. Rotate the xenon bulb socket counterclockwise and unlock it.
- 3. Remove the retaining spring lock. Remove the xenon bulb.
- Remove the bumper bracket.
- Remove the HID control unit installation screw.
- Remove the screw. Disconnect the connector 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 <u>EXL-109</u>, "Inspection After Installation (<u>HID Control Unit</u>)".

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.

- 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.

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FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

- 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.

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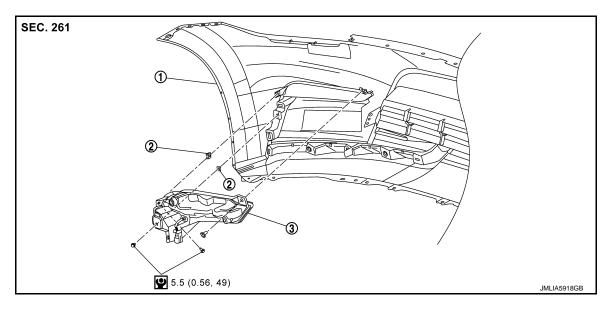
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DAYTIME RUNNING LIGHT

Exploded View

FOR NISMO



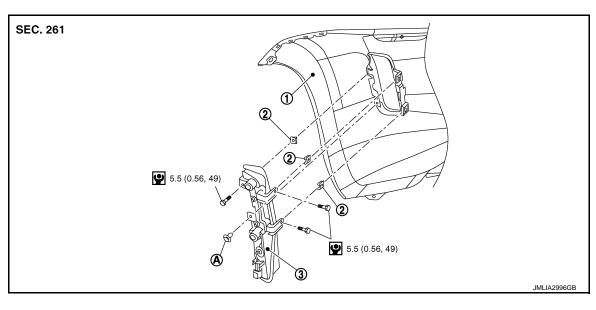
. Bumper fascia

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

DAYTIME RUNNING LIGHT

< REMOVAL AND INSTALLATION >

[XENON TYPE]

For NISMO

- 1. Remove front fender protector to make work space. Refer to <u>EXT-35</u>, "<u>FENDER PROTECTOR</u>: 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.

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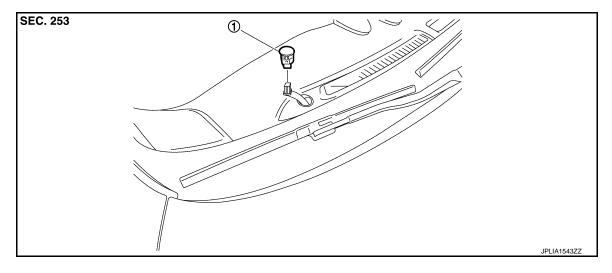
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INFOID:0000000010840602

OPTICAL SENSOR

Exploded View



1. Optical sensor

Removal and Installation

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

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LIGHTING & TURN SIGNAL SWITCH

< REMOVAL AND INSTALLATION >

[XENON TYPE]

LIGHTING & TURN SIGNAL SWITCH

Exploded View

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

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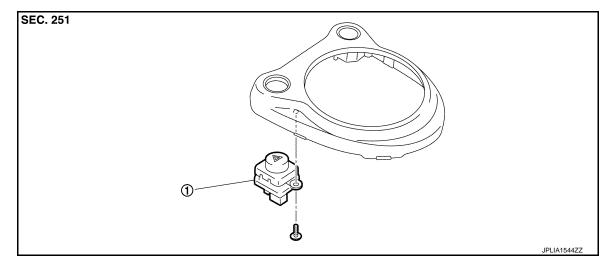
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INFOID:0000000010840605

HAZARD SWITCH

Exploded View



1. Hazard switch

Removal and Installation

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.

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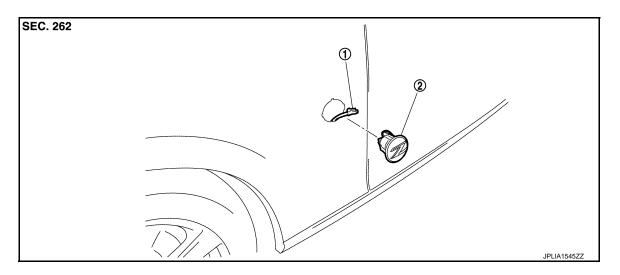
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SIDE TURN SIGNAL LAMP

Exploded View



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

Removal and Installation

INFOID:0000000010840607

CAUTION:

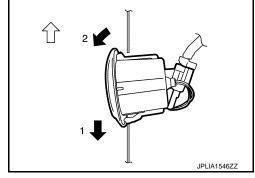
Disconnect battery negative terminal or remove the fuse.

REMOVAL

- Remove the side turn signal lamp in numerical order shown in the figure.
 - : Vehicle front
- 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

SIDE TURN SIGNAL LAMP BULB

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

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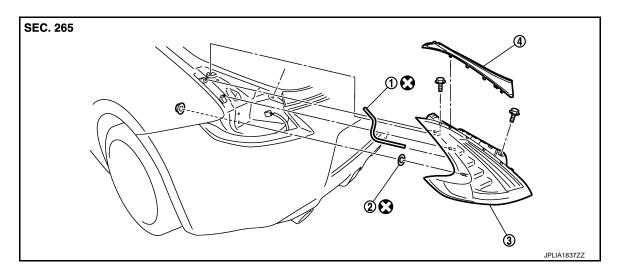
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REAR COMBINATION LAMP

Exploded View INFOID:0000000010840609

REMOVAL



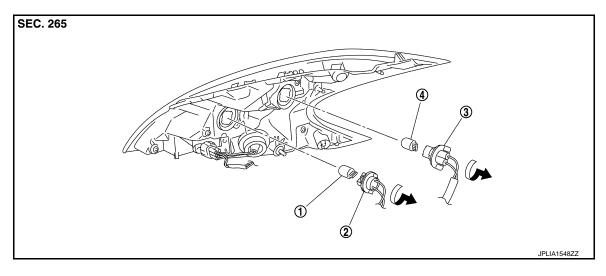
EPT sealer

Seal packing

Rear combination lamp assembly

- Rear combination lamp finisher
- : Always replace after every disassembly.

DISASSEMBLY



Rear turn signal lamp bulb

Back-up lamp

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

Removal and Installation

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

CAUTION:

- 1. Remove the rear combination lamp finisher.
- Remove the luggage side finisher upper / trunk side finisher. Coupe models: Refer to INT-31, "Exploded View". Roadster models: Refer to INT-35, "Exploded View".
- Remove the rear combination lamp mounting nut and bolts.

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INFOID:0000000010840610

< REMOVAL AND INSTALLATION >

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

INSTALLATION

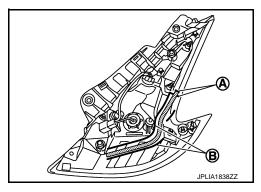
Install in the reverse order of removal.

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

- Remove the rear combination lamp assembly.
- 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".

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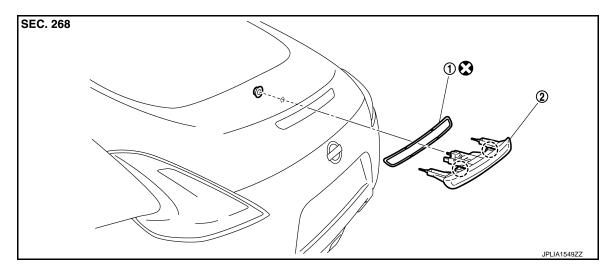
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INFOID:0000000010840613

HIGH-MOUNTED STOP LAMP

Exploded View INFOID:0000000010840612



1. Seal packing

High-mounted stop lamp

- (): Metal clip
- : Always replace after every disassembly.

Removal and Installation

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

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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Seal packing cannot be reused.

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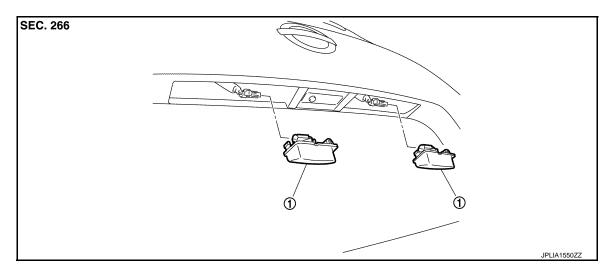
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LICENSE PLATE LAMP

Exploded View



1. License plate lamp

Removal and Installation

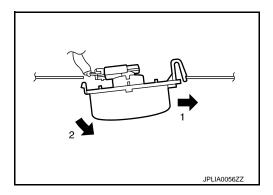
INFOID:0000000010840615

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- 1. Remove the license plate lamp in numerical order.
- 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:000000010840616

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

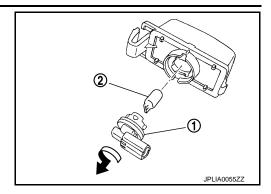
Remove the license plate lamp.

LICENSE PLATE LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

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



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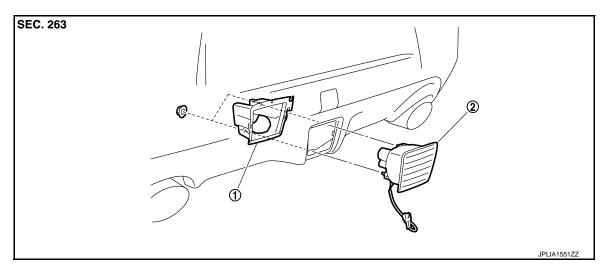
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REAR FOG LAMP

Exploded View



- 1. Rear fog lamp bracket
- 2. Rear fog lamp

Removal and Installation

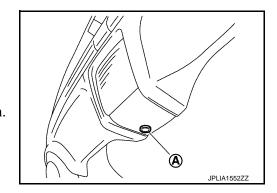
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CAUTION:

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:000000010840619

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.

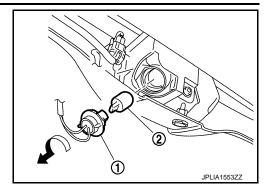
REAR FOG LAMP BULB

REAR FOG LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

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



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SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[XENON TYPE]

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000010840620

Item		Туре	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