

EXL

SECTION EXL

EXTERIOR LIGHTING SYSTEM

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PRECAUTION**PRECAUTIONS****FOR USA AND CANADA****FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"**

INFOID:000000009362866

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:000000009362867

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.).

PRECAUTIONS

< PRECAUTION >

[XENON TYPE]

FOR USA AND CANADA : Precaution for Battery Service

INFOID:000000009362868

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

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

INFOID:000000009362869

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

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

FOR MEXICO : Precautions For Xenon Headlamp Service

INFOID:000000009362870

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.).

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PRECAUTIONS

< PRECAUTION >

[XENON TYPE]

FOR MEXICO : Precaution for Battery Service

INFOID:000000009362871

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.

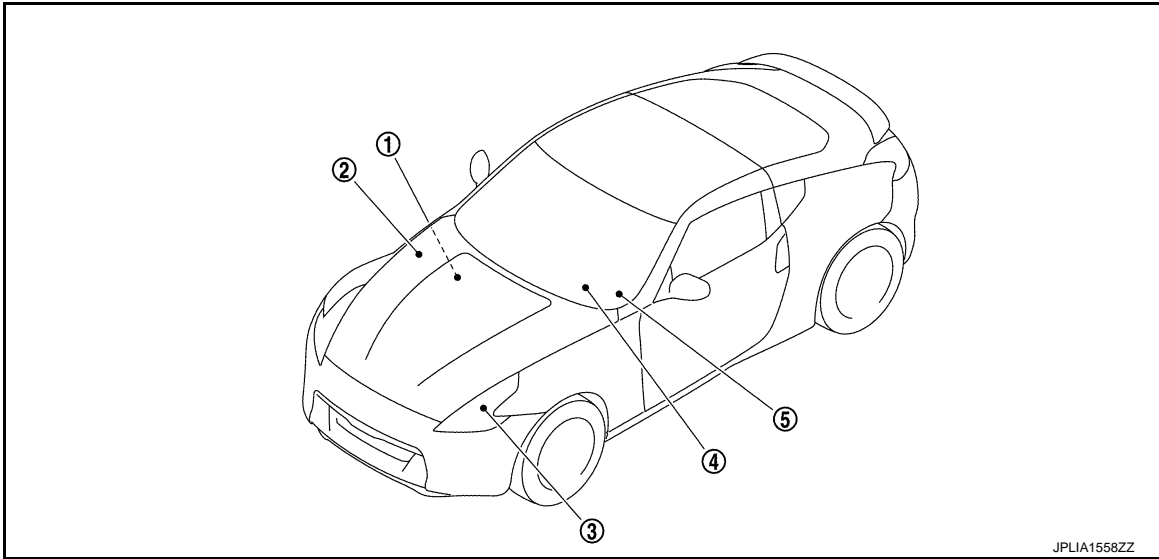
SYSTEM DESCRIPTION

COMPONENT PARTS

HEADLAMP SYSTEM

HEADLAMP SYSTEM : Component Parts Location

INFOID:000000009362872



- 1. BCM
Refer to [BCS-11, "Component Parts Location"](#).
- 2. IPDM E/R
Refer to [PCS-5, "Component Parts Location"](#).
- 3. Headlamp
- 4. Combination meter
(High beam indicator lamp)
- 5. Combination switch

HEADLAMP SYSTEM : Component Description

INFOID:000000009362873

Part	Description
BCM	<ul style="list-style-type: none"> • 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-12, "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	<ul style="list-style-type: none"> • HID control unit • Xenon bulb
	High beam solenoid

AUTO LIGHT SYSTEM

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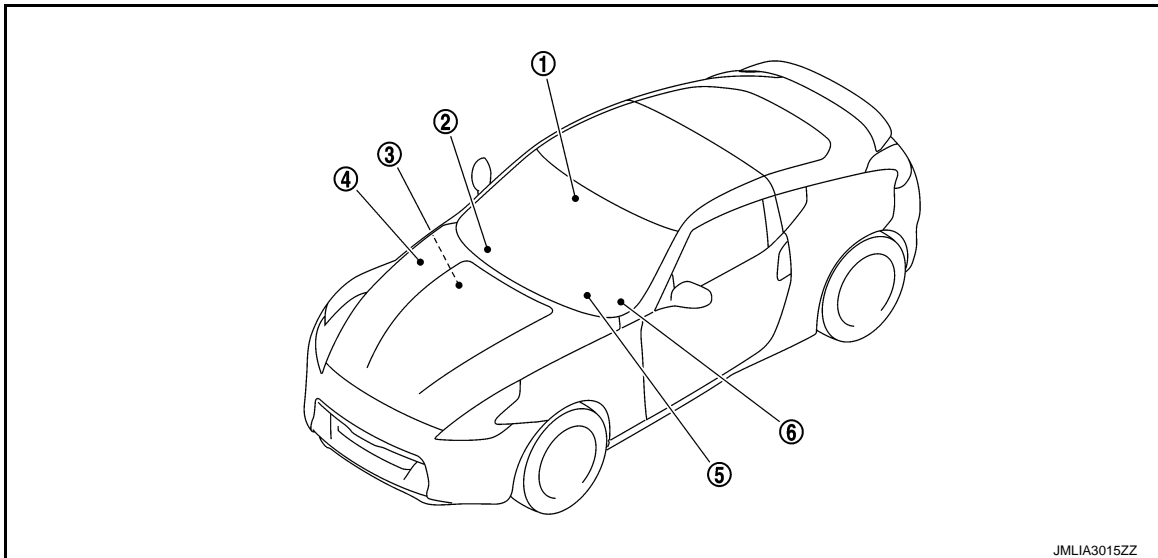
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

AUTO LIGHT SYSTEM : Component Parts Location

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- | | | |
|---|----------------------|---|
| 1. Door switch | 2. Optical sensor | 3. BCM
Refer to BCS-11, "Component Parts Location" . |
| 4. IPDM E/R
Refer to PCS-5, "Component Parts Location" . | 5. Combination meter | 6. Combination switch |

AUTO LIGHT SYSTEM : Component Description

INFOID:000000009362875

Part	Description
BCM	<ul style="list-style-type: none"> • 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-12, "System Diagram" .
Optical sensor	Refer to EXL-88, "Description" .

DAYTIME RUNNING LIGHT SYSTEM

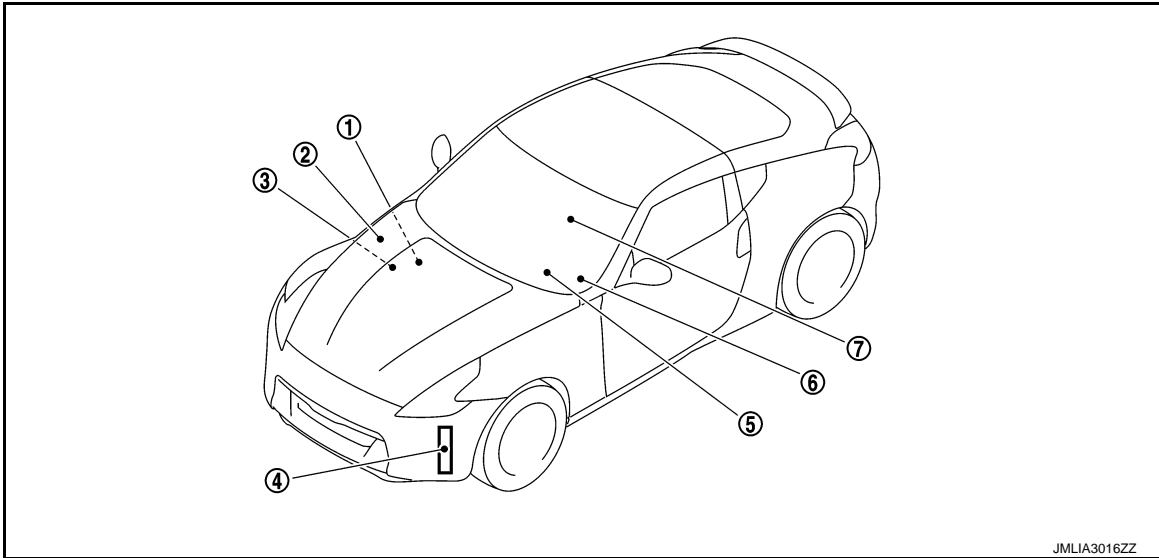
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM : Component Parts Location

INFOID:000000009362876



- | | | |
|---|---|--|
| 1. BCM
Refer to BCS-11, "Component Parts Location" . | 2. IPDM E/R
Refer to PCS-5, "Component Parts Location" . | 3. ECM
Refer to EC-40, "Component Parts Location" . |
| 4. Daytime running light | 5. Combination meter | 6. Combination switch |
| 7. Parking brake switch | | |

DAYTIME RUNNING LIGHT SYSTEM : Component Description

INFOID:000000009362877

Part	Description
BCM	<ul style="list-style-type: none"> • 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-12, "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 Loca-

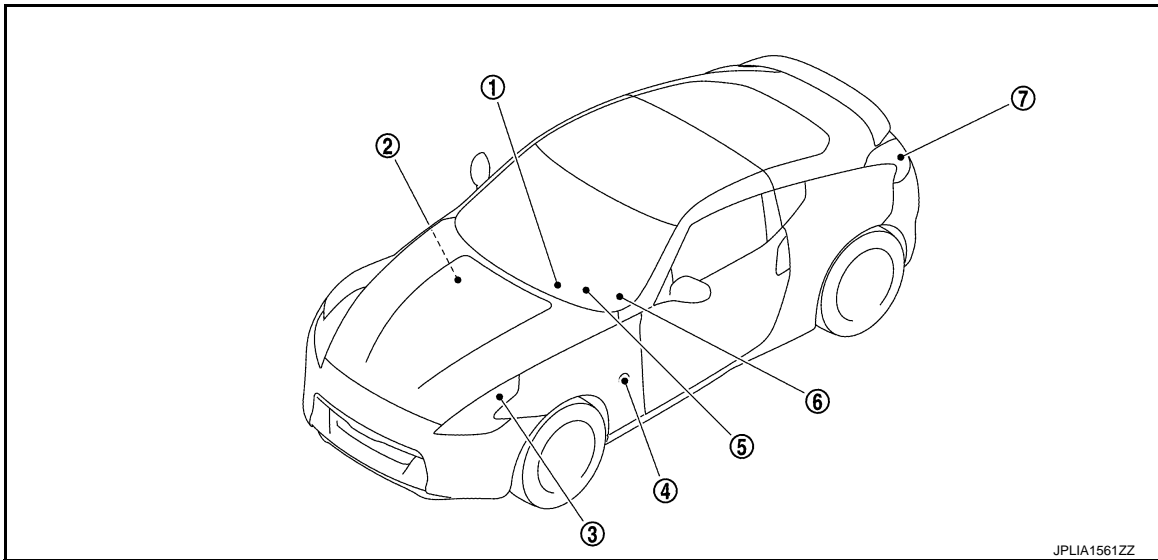
COMPONENT PARTS

< SYSTEM DESCRIPTION >

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- | | | |
|--------------------------|---|---------------------------|
| 1. Hazard switch | 2. BCM
Refer to BCS-11. "Component Parts Location" . | 3. Front turn signal lamp |
| 4. Side turn signal lamp | 5. Combination meter
(Turn signal indicator lamp) | 6. Combination switch |
| 7. Rear turn signal lamp | | |

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : Component Description

INFOID:000000009362879

Part	Description
BCM	<ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges the blinks of the turn signal lamp and the hazard warning lamp from each switch status. The applicable turn signal lamp blinks. - Requests the turn signal indicator lamp blink to the combination meter (with CAN communication).
Combination switch (Lighting & turn signal switch)	Refer to BCS-12. "System Diagram" .
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

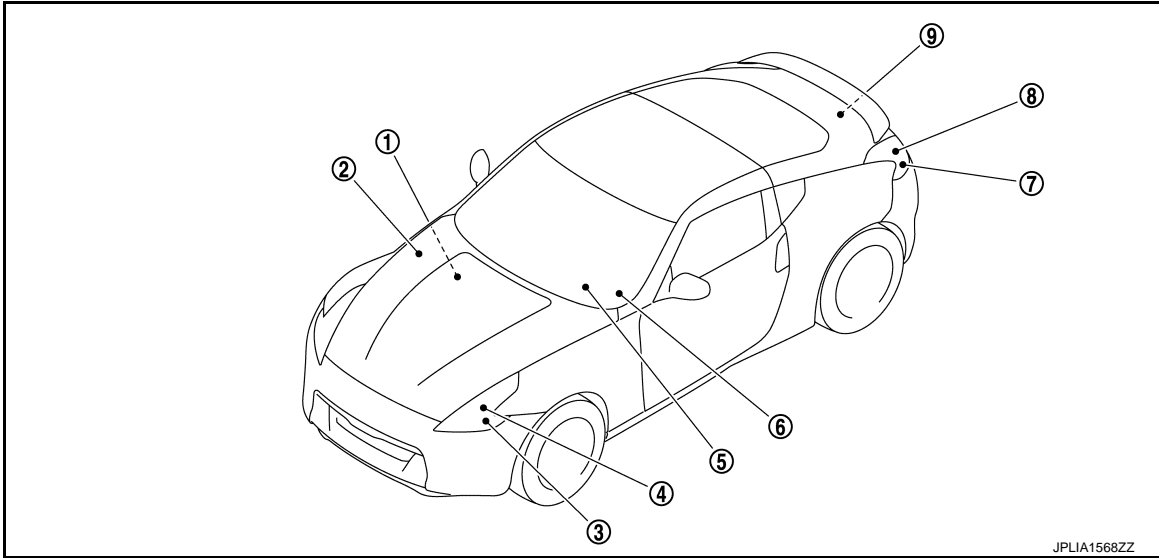
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS : Component Parts Location

INFOID:000000009362880



- | | | |
|---|---|-----------------------|
| 1. BCM
Refer to BCS-11, "Component Parts Location" . | 2. IPDM E/R
Refer to PCS-5, "Component Parts Location" . | 3. Parking lamp |
| 4. Front side marker lamp | 5. Combination meter
(Tail lamp indicator lamp) | 6. Combination switch |
| 7. Rear side marker lamp | 8. Tail lamp | 9. License plate lamp |

PARKING, LICENSE PLATE AND TAIL LAMPS : Component Description

INFOID:000000009362881

Part	Description
BCM	<ul style="list-style-type: none"> • 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-12, "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

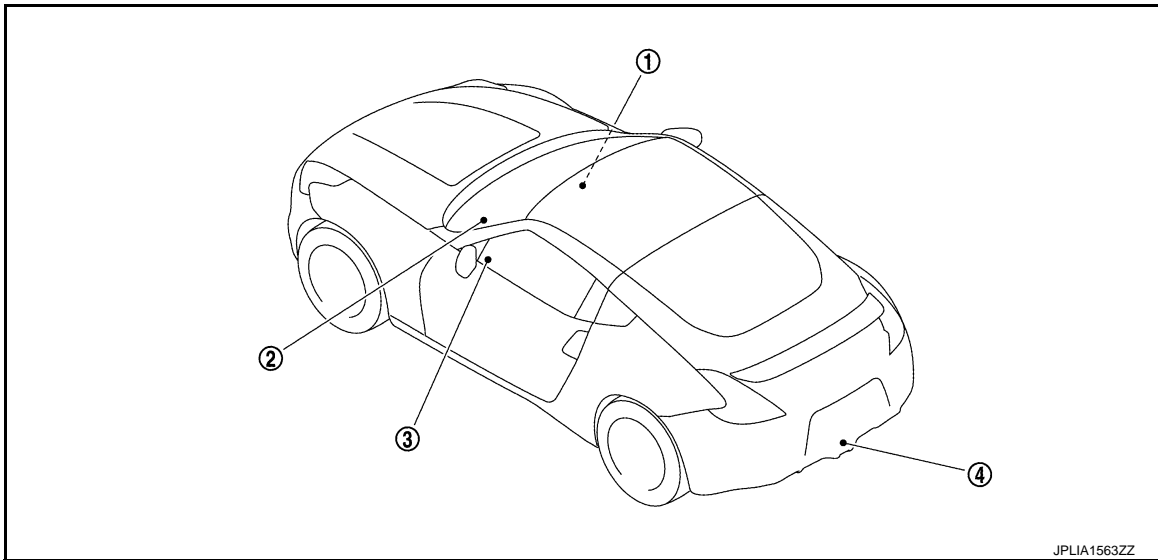
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

REAR FOG LAMP SYSTEM : Component Parts Location

INFOID:000000009362882



1. BCM
Refer to [BCS-11. "Component Parts Location"](#).
2. Combination meter
(Rear fog lamp indicator lamp)
3. Combination switch
4. Rear fog lamp

REAR FOG LAMP SYSTEM : Component Description

INFOID:000000009362883

Part	Description
BCM	<ul style="list-style-type: none"> • 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-12. "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

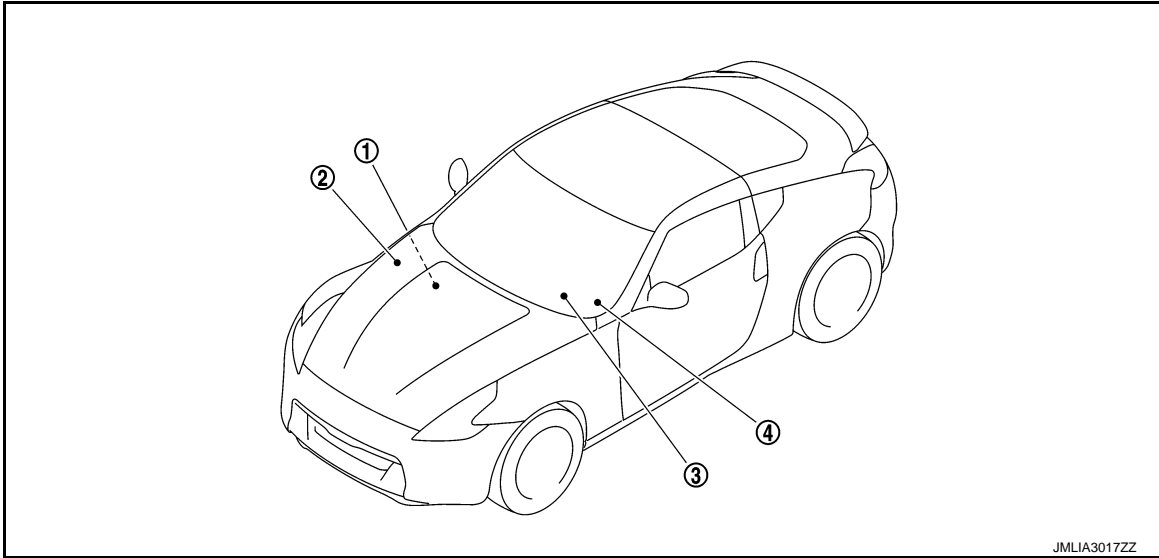
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

EXTERIOR LAMP BATTERY SAVER SYSTEM : Component Parts Location

INFOID:000000009362884



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|---|--|-----------------------------|
| <p>1. BCM
Refer to BCS-11, "Component Parts Location".</p> <p>4. Combination switch</p> | <p>2. IPDM E/R
Refer to PCS-5, "Component Parts Location".</p> | <p>3. Combination meter</p> |
|---|--|-----------------------------|

EXTERIOR LAMP BATTERY SAVER SYSTEM : Component Description

INFOID:000000009362885

Part	Description
BCM	<ul style="list-style-type: none"> • 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-12, "System Diagram" .

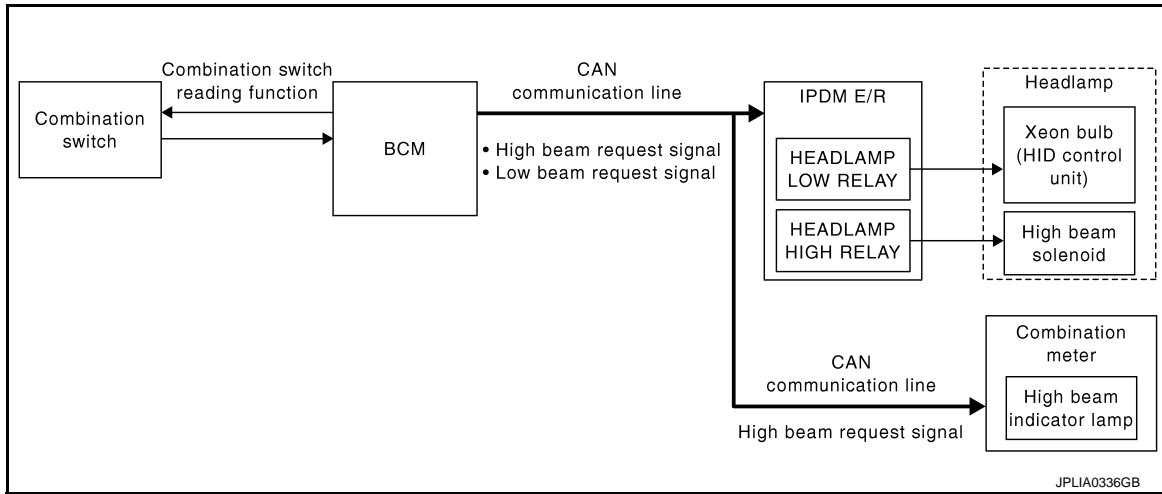
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SYSTEM

HEADLAMP SYSTEM

HEADLAMP SYSTEM : System Diagram

INFOID:000000009362886



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HEADLAMP SYSTEM : System Description

INFOID:000000009362887

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

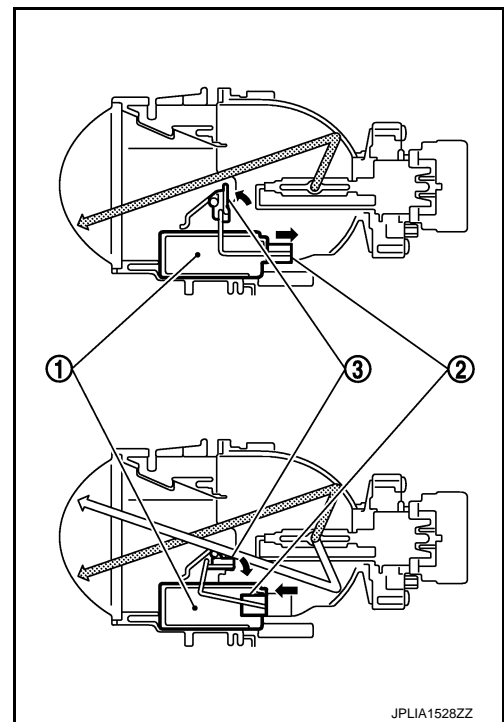
- Combination meter turns the high beam indicator lamp ON according to the high beam request signal.
- IPDM E/R turns the integrated headlamp high relay ON, and turns the headlamp ON according to the high beam request signal.

SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

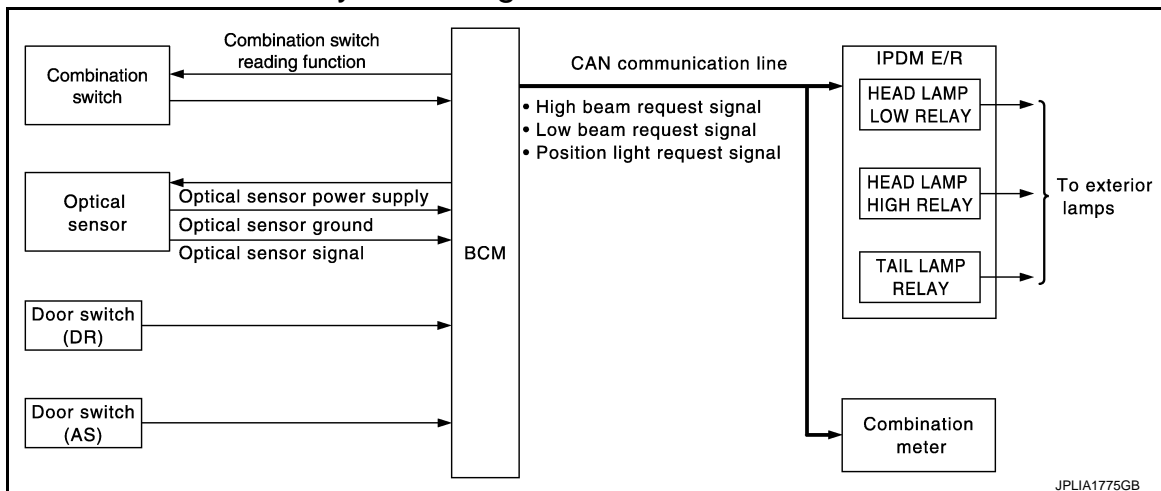
- When the headlamp high relay is turned ON, magnetic force is applied to the high beam solenoid (1) by a current. The mobile valve shade (3) is switched to the high beam position through the actuator rod (2).
- When the headlamp high relay is turned OFF, the current stops. The mobile valve shade returns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



AUTO LIGHT SYSTEM

AUTO LIGHT SYSTEM : System Diagram

INFOID:000000009362888



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AUTO LIGHT SYSTEM : System Description

INFOID:000000009362889

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.

SYSTEM

[XENON TYPE]

< SYSTEM DESCRIPTION >

- 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-21. "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.

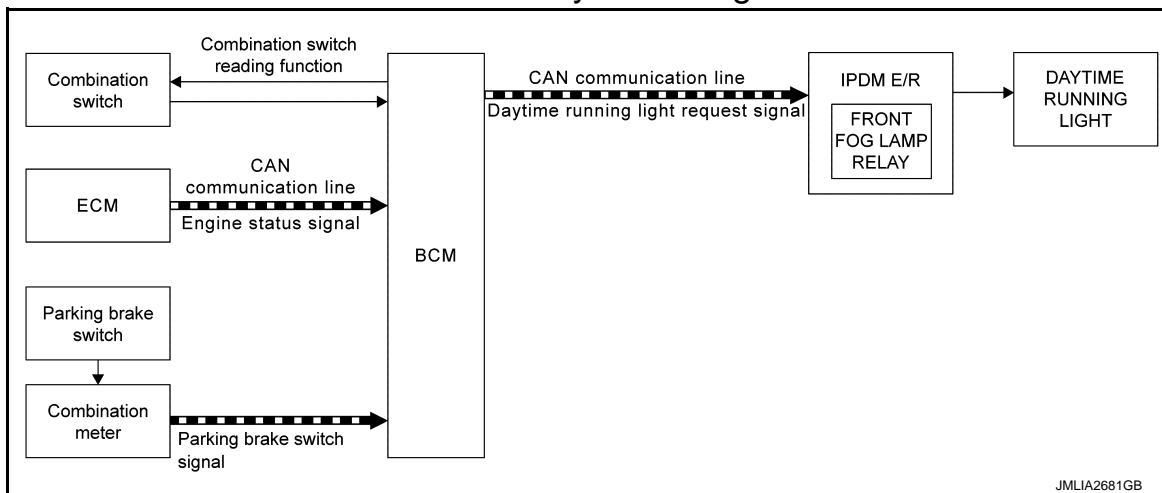
*: The preset time is 45 seconds. The timer operating time can be set by CONSULT. Refer to [EXL-21. "HEAD-LAMP : CONSULT Function \(BCM - HEAD LAMP\)".](#)

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 RUNNING LIGHT SYSTEM

DAYTIME RUNNING LIGHT SYSTEM : System Diagram



DAYTIME RUNNING LIGHT SYSTEM : System Description

INFOID:000000009362891

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.

SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

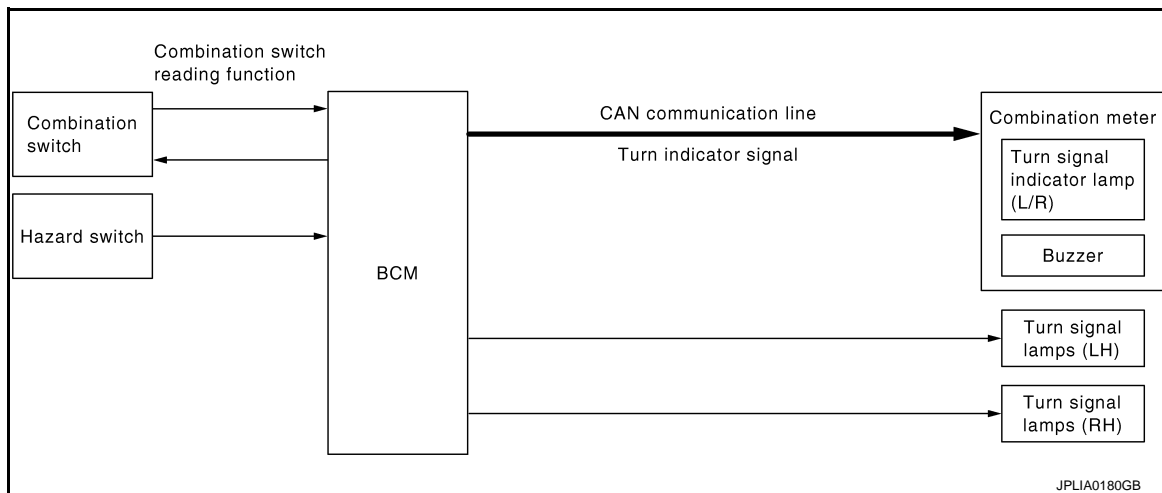
- BCM detects the parking brake condition by the parking brake switch signal received from combination meter with CAN communication.
- BCM detects ENGINE RUNNING condition by engine status signal and RELEASE condition by parking brake switch signal. And then, BCM transmits the daytime running light request 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:000000009362893

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.

HIGH FLASHER OPERATION (FAIL-SAFE)

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

NOTE:

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

PARKING, LICENSE PLATE AND TAIL LAMPS

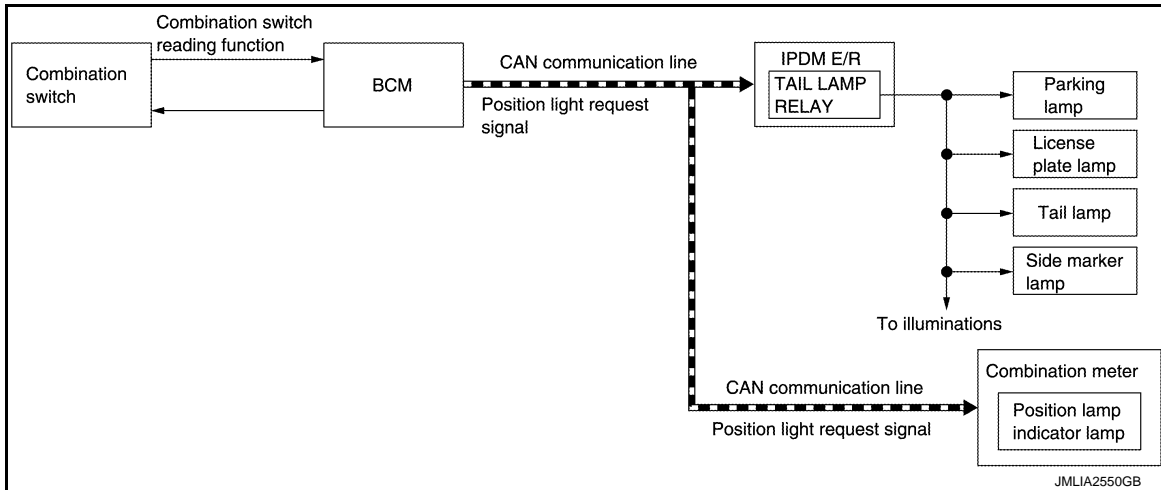
SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS : System Diagram

INFOID:000000009362894



PARKING, LICENSE PLATE AND TAIL LAMPS : System Description

INFOID:000000009362895

OUTLINE

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

PARKING, LICENSE PLATE, TAIL AND SIDE MARKER LAMPS OPERATION

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

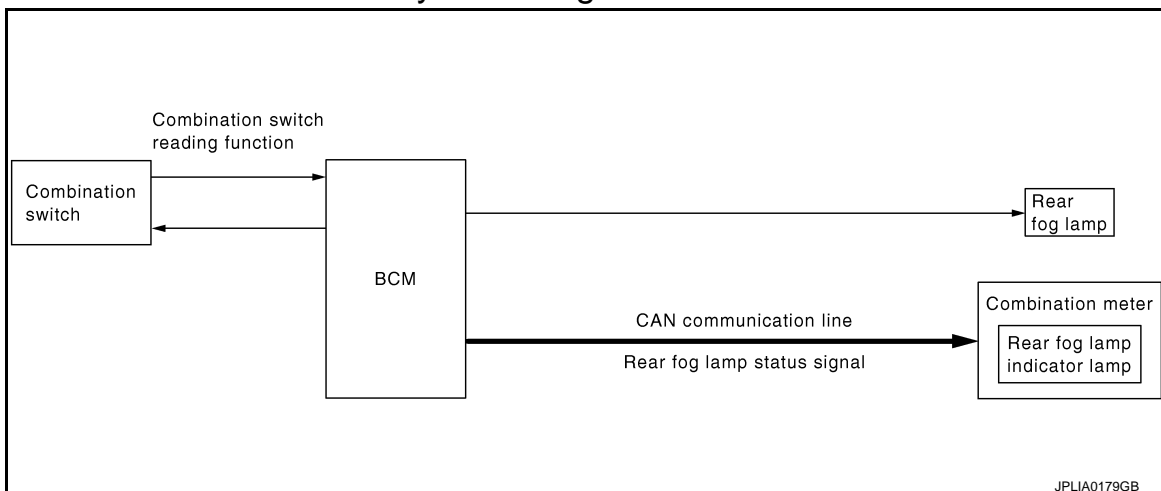
Parking, license plate, tail and side marker lamps ON condition

- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment
- IPDM E/R turns the integrated tail lamp relay ON and turns the parking, license plate, tail and side marker lamps ON according to the position light request signal.
- Combination meter turns the position lamp indicator lamp ON according to the position light request signal.

REAR FOG LAMP SYSTEM

REAR FOG LAMP SYSTEM : System Diagram

INFOID:000000009362896



REAR FOG LAMP SYSTEM : System Description

INFOID:000000009362897

OUTLINE

SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

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

REAR FOG LAMP OPERATION

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

Rear fog lamp ON condition

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

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

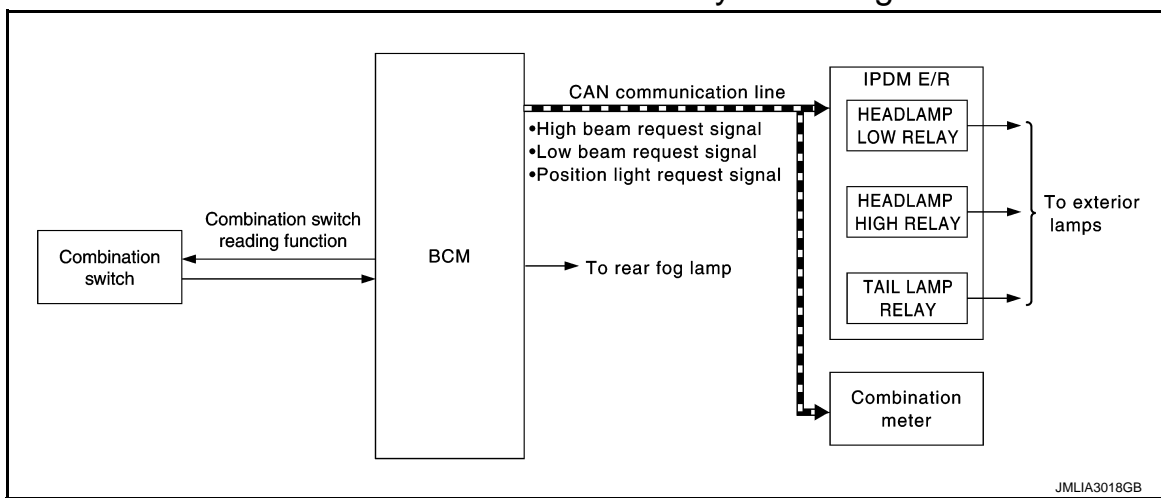
- When rear fog lamp switch signal is input (OFF → ON) with rear fog lamp ON
- Headlamp OFF

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

EXTERIOR LAMP BATTERY SAVER SYSTEM

EXTERIOR LAMP BATTERY SAVER SYSTEM : System Diagram

INFOID:000000009362898



EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description

INFOID:000000009362899

OUTLINE

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

Control by BCM

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

Control by IPDM E/R

- Relay control function

- BCM turns the exterior lamp* OFF after a period of time to prevent the battery from over-discharge when the ignition switch is turned OFF with the exterior lamp ON.

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

NOTE:

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

EXTERIOR LAMP BATTERY SAVER ACTIVATION

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

NOTE:

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

DIAGNOSIS SYSTEM (BCM)

[XENON TYPE]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000009726448

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	<ul style="list-style-type: none"> 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.

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
—	AIR CONDITONER*			
<ul style="list-style-type: none"> Intelligent Key system Engine start system 	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door/Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE:

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

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[XENON TYPE]

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	A
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	B
Vehicle Condition	SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)	B
	SLEEP>OFF	While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	C
	LOCK>ACC	While turning power supply position from "LOCK"* to "ACC"	D
	ACC>ON	While turning power supply position from "ACC" to "IGN"	D
	RUN>ACC	While turning power supply position from "RUN" to "ACC" (Except emergency stop operation)	E
	CRANK>RUN	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	E
	RUN>URGENT	While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	F
	ACC>OFF	While turning power supply position from "ACC" to "OFF"	F
	OFF>LOCK	While turning power supply position from "OFF" to "LOCK"*	G
	OFF>ACC	While turning power supply position from "OFF" to "ACC"	G
	ON>CRANK	While turning power supply position from "IGN" to "CRANKING"	H
	OFF>SLEEP	While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	H
	LOCK>SLEEP	While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode	I
	LOCK	Power supply position is "LOCK"*	I
	OFF	Power supply position is "OFF" (Ignition switch OFF)	J
	ACC	Power supply position is "ACC" (Ignition switch ACC)	J
	ON	Power supply position is "IGN" (Ignition switch ON with engine stopped)	K
	ENGINE RUN	Power supply position is "RUN" (Ignition switch ON with engine running)	K
CRANKING	Power supply position is "CRANKING" (At engine cranking)	K	
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 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. 	EXL

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:000000009362901

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[XENON TYPE]

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

*: Factory setting

DATA MONITOR

NOTE:

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

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[XENON TYPE]

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

ACTIVE TEST

Test item	Operation	Description
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON.
	Off	Stops the position light request signal transmission.
HEAD LAMP	Hi	Transmits the high beam request signal with CAN communication to turn the head-lamp (HI).
	Low	Transmits the low beam request signal with CAN communication to turn the head-lamp (LO).
	Off	Stops the high & low beam request signal transmission.
FR FOG LAMP	On	Transmits the daytime running light request signal with CAN communication to turn the daytime running light.
	Off	Stops the daytime running light request signal transmission.
RR FOG LAMP	On	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Stops the voltage to turn the rear fog lamp OFF. • Stops the rear fog lamp status signal transmission.
DAYTIME RUNNING LIGHT	On	NOTE: The item is indicated, but cannot be tested.
	Off	
CORNERING LAMP	RH	NOTE: The item is indicated, but cannot be tested.
	LH	
	Off	
ILL DIM SIGNAL	On	NOTE: The item is indicated, but cannot be tested.
	Off	

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:000000009362902

WORK SUPPORT

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

DIAGNOSIS SYSTEM (BCM)

[XENON TYPE]

< SYSTEM DESCRIPTION >

*: Factory setting

DATA MONITOR

NOTE:

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

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

ACTIVE TEST

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

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:000000009726449

AUTO ACTIVE TEST

Description

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

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

Operation Procedure

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

NOTE:

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

CAUTION:

- **If auto active test mode cannot be actuated, check door switch system. Refer to [DLK-88](#), "[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	<ul style="list-style-type: none"> • 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

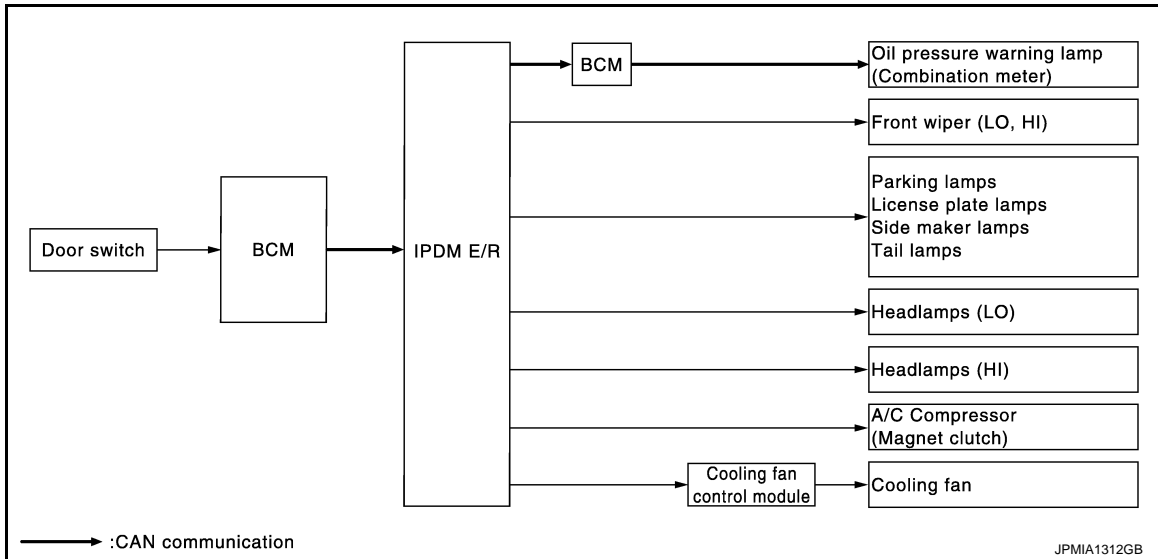
*: Outputs duty ratio of 50% for 5 seconds → duty ratio of 100% for 5 seconds on the cooling fan control module.

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

Concept of auto active test



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

Diagnosis chart in auto active test mode

Symptom	Inspection contents	Possible cause
Any of the following components do not operate <ul style="list-style-type: none"> • 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?	YES BCM signal input circuit
		NO <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Magnet clutch • Harness or connector between IPDM E/R and magnet clutch • IPDM E/R
Oil pressure warning lamp does not operate	Perform auto active test. Does the oil pressure warning lamp blink?	YES <ul style="list-style-type: none"> • Harness or connector between IPDM E/R and oil pressure switch • Oil pressure switch • IPDM E/R
		NO <ul style="list-style-type: none"> • CAN communication signal between IPDM E/R and BCM • CAN communication signal between BCM and unified meter and A/C amp. • Combination meter

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

Symptom	Inspection contents		Possible cause
Cooling fan does not operate	Perform auto active test. Does the cooling fan operate?	YES	<ul style="list-style-type: none"> • ECM signal input circuit • CAN communication signal between ECM and IPDM E/R
		NO	<ul style="list-style-type: none"> • Cooling fan • Harness or connector between 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:000000009726450

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-31, "DTC Index"](#).

DATA MONITOR

NOTE:

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

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

DIAGNOSIS SYSTEM (IPDM E/R)

[XENON TYPE]

< SYSTEM DESCRIPTION >

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

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

Test item	Operation	Description
MOTOR FAN	1	OFF
	2	Outputs 50% pulse duty signal (PWM signal) to the cooling fan control module.
	3	Outputs 80% pulse duty signal (PWM signal) to the cooling fan control module.
	4	Outputs 100% pulse duty signal (PWM signal) to the cooling fan control module.
HEAD LAMP WASHER	On	NOTE: The item is indicated, but cannot be tested.
EXTERNAL LAMPS	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.
	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.

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ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:000000009362905

ECU	Reference
BCM	BCS-59, "Reference Value"
	BCS-97, "Fail-safe"
	BCS-98, "DTC Inspection Priority Chart"
	BCS-99, "DTC Index"
IPDM E/R	PCS-19, "Reference Value"
	PCS-29, "Fail-safe"
	PCS-31, "DTC Index"

HEADLAMP SYSTEM

[XENON TYPE]

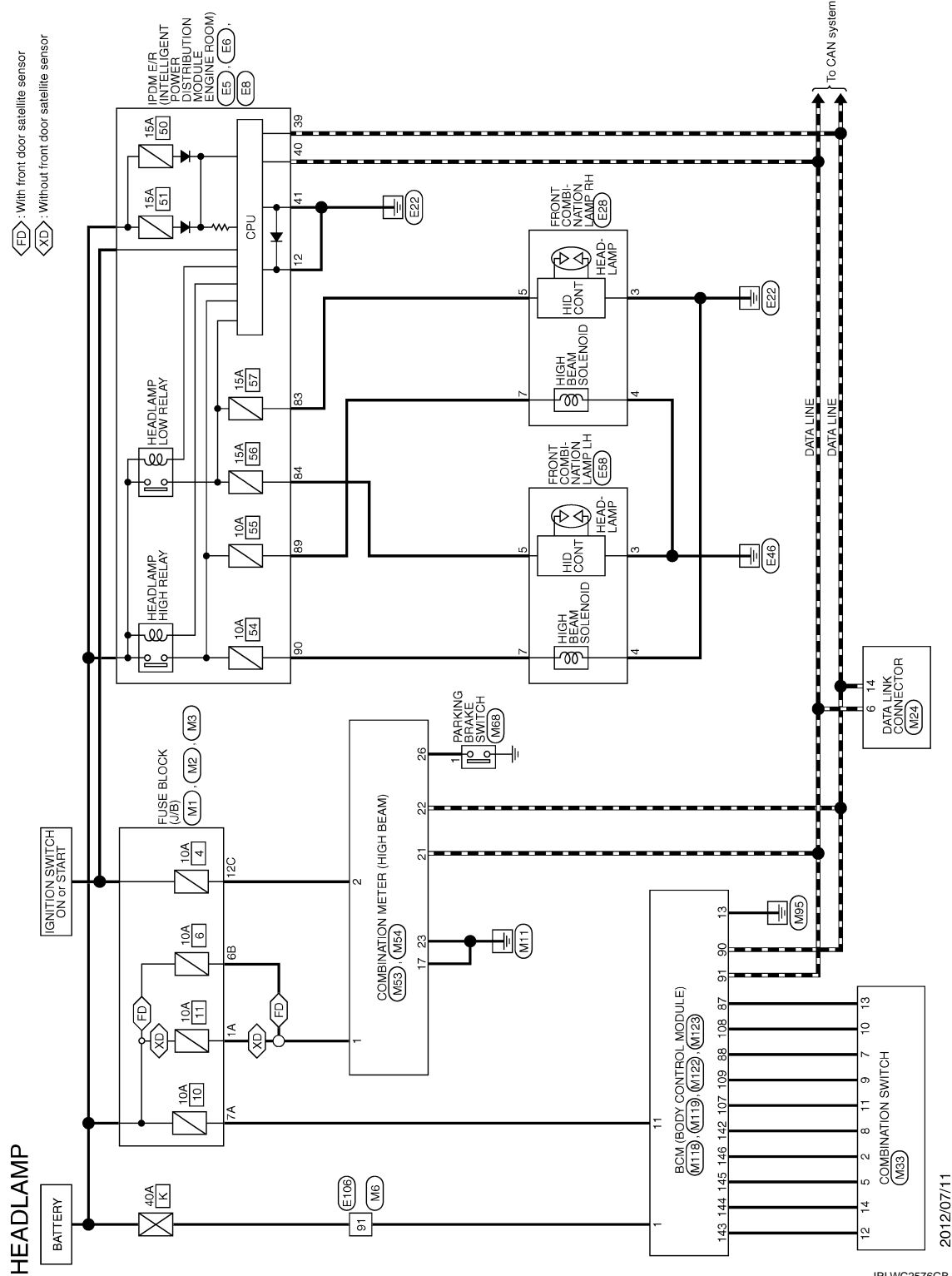
< WIRING DIAGRAM >

WIRING DIAGRAM

HEADLAMP SYSTEM

Wiring Diagram

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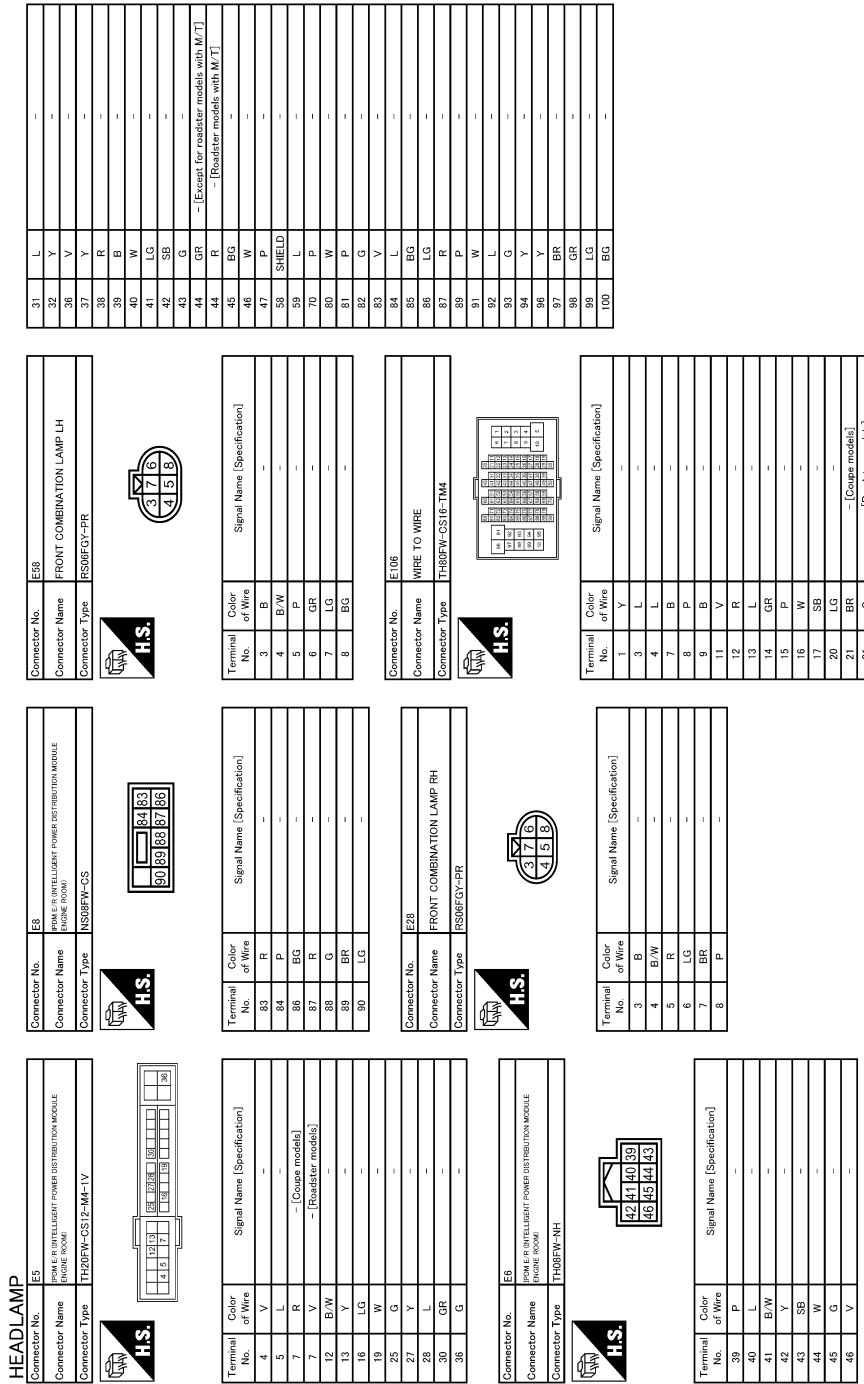
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HEADLAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]



JRLWC4752GB

HEADLAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

HEADLAMP

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSD8FW-M2



Terminal No.	Color of Wire	Signal Name (Specification)
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	L	-
6A	Y	-
7A	BR	-
8A	L	-

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



Terminal No.	Color of Wire	Signal Name (Specification)
6C	R	-
7C	B	-
8C	O	-
10C	L	-
11C	LG	-
12C	O	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MP-CS16-TM4



Terminal No.	Color of Wire	Signal Name (Specification)
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	B	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	R	-
31	BR	-
32	V	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-
41	LG	-
42	R	-
43	G	-
44	G	-
44	R	- [With A/T]
45	O	- [With M/T]
46	G	-
47	BR	-
58	SHIELD	-
59	L	-
70	R	-
80	LG	-
81	GR	-
82	V	-
83	V	-
84	L	-

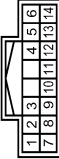
85	BR	-
86	Y	-
87	G	-
89	P	-
91	W	-
92	P	-
93	P	-
94	Y	-
96	P	-
97	GR	-
98	O	-
99	W	-
100	R	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



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

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



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

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HEADLAMP SYSTEM

< WIRING DIAGRAM >

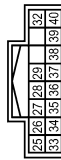
[XENON TYPE]

HEADLAMP

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FV-NH



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



Connector No.	M54
Connector Name	COMBINATION METER
Connector Type	TH18EV-NH

Terminal No.	Color of Wire	Signal Name [Specification]
25	W	BAT (+L)
26	W	POWER WINDOW POWER SUPPLY (BAT)
27	W	POWER WINDOW POWER SUPPLY (IGN)
28	W	POWER WINDOW POWER SUPPLY (BAT)
29	W	POWER WINDOW POWER SUPPLY (IGN)
30	W	POWER WINDOW POWER SUPPLY (BAT)
31	W	POWER WINDOW POWER SUPPLY (IGN)
32	W	POWER WINDOW POWER SUPPLY (BAT)

25	W	ALTERNATOR SIGNAL
26	O	PARKING BRAKE SWITCH SIGNAL
27	LG	BRAKE FLUID LEVEL SWITCH SIGNAL
28	Y	SECURITY SIGNAL
29	GR	WASHER LEVEL SWITCH SIGNAL
32	G	PADDLE SHIFTER DOWN SIGNAL
33	O	PADDLE SHIFTER UP SIGNAL
34	BR	FUEL LEVEL SENSOR SIGNAL
35	L	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
36	P	PASSENGER SEAT BELT WARNING SIGNAL [Except for Mexico]
36	L	PASSENGER SEAT BELT WARNING SIGNAL [For Mexico]
37	G	NON-MANUAL MODE SIGNAL
38	V	MANUAL MODE SHIFT DOWN SIGNAL
39	L	MANUAL MODE SHIFT UP SIGNAL
40	W	MANUAL MODE SIGNAL

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



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (+L)
2	W	POWER WINDOW POWER SUPPLY (BAT)
3	Y	POWER WINDOW POWER SUPPLY (IGN)

Connector No.	M119
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	NS18FV-DS



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

Connector No.	M122
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	TH48FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
72	L	ROOM ANT 2-
73	P	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	L	ROOM ANT 1-
79	B	ROOM ANT 1+
80	GR	MAT'S ANT LAMP
81	W	MAT'S ANT AMP
82	R	IGN RELAY (P/B) CONT

83	GR	KYLS ENT RECEIVER (FRONT) COMM
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	O	ACC RELAY CONT
96	Y	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P/CLUTCH PEDAL POS SW
100	GR	PASSENGER DOOR REQUEST SW
101	Y	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	LG	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
107	LG	COMBI SW INPUT 4
108	R	COMBI SW INPUT 1
109	Y	COMBI SW INPUT 2
110	P	HAZARD SW

HEADLAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

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HEADLAMP

Connector No.	M123
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	THMFC-NH



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

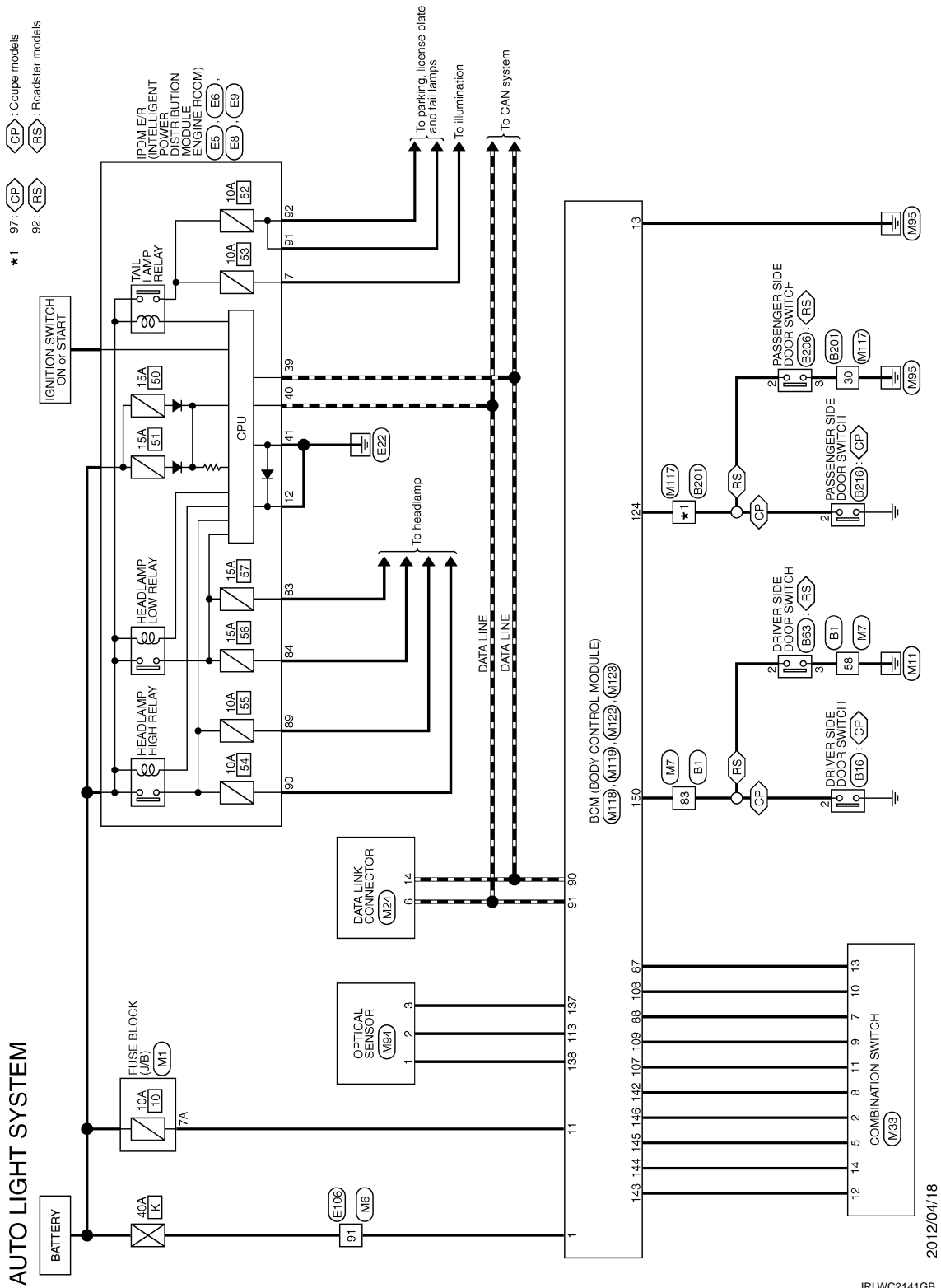
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AUTO LIGHT SYSTEM

Wiring Diagram

INFOID:000000009362907



AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

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AUTO LIGHT SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FY-C51B-TM4



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

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

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



Terminal No.	Color of Wire	Signal Name (Specification)
2	GR	-

Connector No.	B83
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name (Specification)
2	GR	-
3	B	-

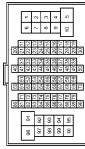
AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

AUTO LIGHT SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8BFW-CSTP-TM4



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

69	L	-
70	G	-
72	B	-
73	L	- [Coupe models]
73	L	- [Roadster models]
74	P	- [Coupe models]
74	B	- [Roadster models]
75	W	- [Coupe models]
75	B	- [Roadster models]
76	B	-
80	V	-
81	SB	-
82	G	-
83	R	-
84	W	-
85	B	-
86	SHIELD	-
87	O	-
88	BR	-
89	Y	-
90	SHIELD	-
92	SB	- [Coupe models]
92	LG	- [Roadster models]
93	V	- [Coupe models]
93	V	- [Roadster models]
93	W	- [Coupe models]
94	SHIELD	- [Roadster models]
94	G	-
95	GR	- [Coupe models]
95	LG	- [Roadster models]
97	LG	- [Coupe models]
97	Y	- [Roadster models]
98	W	- [Coupe models]
98	Y/B	- [Roadster models]
99	G	-
100	BR	-
100	Y	- [Roadster models]

Connector No.	B206
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name (Specification)
2	LG	-
3	B	-

2	LG	-
3	B	-

Connector No.	B216
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name (Specification)
2	LG	-

Connector No.	E5
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH2BFW-CSTP-MM-TV



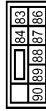
Terminal No.	Color of Wire	Signal Name (Specification)
4	V	-
5	L	-
7	R	- [Coupe models]
7	V	- [Roadster models]
12	B/W	-
13	Y	-
16	LG	-
19	W	-
25	G	-
27	Y	-
28	L	-
30	GR	-
36	G	-

Connector No.	E8
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH8BFW-IH



Terminal No.	Color of Wire	Signal Name (Specification)
39	P	-
40	L	-
41	B/W	-
42	Y	-
43	SB	-
44	W	-
45	G	-
46	V	-

Connector No.	E8
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	NSDBFW-CS



Terminal No.	Color of Wire	Signal Name (Specification)
83	R	-
84	P	-
86	BG	-
87	R	-
88	G	-
89	BR	-
90	LG	-

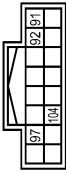
AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

AUTO LIGHT SYSTEM

Connector No.	E19
Connector Name	FRONT INTELLIGENT POWER DISTRIBUTION MODULE FRONT-ROCK
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name (Specification)
81	P	-
92	BG	-
97	V	-
104	LG	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH88FW-CS16-TM4



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

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



Terminal No.	Color of Wire	Signal Name (Specification)
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	B	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	R	-
31	BR	-
32	V	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-
41	LG	-
42	R	-
43	G	-
44	G	-
44	R	- [With A/T]
45	O	- [With M/T]
46	G	-
47	BR	-

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

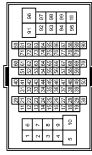


Terminal No.	Color of Wire	Signal Name (Specification)
3A	-	-
4A	-	-
5A	-	-
6A	-	-
7A	-	-
8A	-	-

58	SHIELD	-
59	L	-
70	R	-
80	LG	-
81	GR	-
82	V	-
83	V	-
84	L	-
85	BR	-
86	Y	-
87	G	-
89	P	-
91	W	-
92	P	-
93	P	-
94	Y	-
96	P	-
97	GR	-
98	O	-
99	W	-
100	R	-

3A	L	-
4A	P	-
5A	L	-
6A	Y	-
7A	BR	-
8A	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH88FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name (Specification)
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	B	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	R	-
31	BR	-
32	V	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-
41	LG	-
42	R	-
43	G	-
44	G	-
44	R	- [With A/T]
45	O	- [With M/T]
46	G	-
47	BR	-

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AUTO LIGHT SYSTEM

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[XENON TYPE]

AUTO LIGHT SYSTEM

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CST6-TM4



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

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

Connector No.	M21
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



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

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name (Specification)
1	P	FR WASHER (-)
2	SB	OUTPUT 4
3	W	WASHER MOTOR
4	G	WASHER MTS POWER SUPPLY
5	L	OUTPUT 2
6	B	GROUND
7	V	GROUND
8	O	INPUT 3
9	Y	OUTPUT 5
10	R	INPUT 2
11	LG	INPUT 4
11	LG	INPUT 1

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



Connector No.	M84
Connector Name	OPTICAL SENSOR
Connector Type	TK38FW



Terminal No.	Color of Wire	Signal Name (Specification)
1	V	POWER
2	O	OUTPUT
3	P	GROUND

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AUTO LIGHT SYSTEM

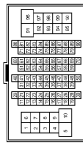
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[XENON TYPE]

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AUTO LIGHT SYSTEM

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH8BMH-CST16-TM4



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

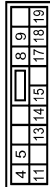


Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

Terminal No.	Color of Wire	Signal Name (Specification)
1	W	BAT (F/L)
2	W	POWER WINDOW POWER SUPPLY (BAT)

Connector No.	3
Connector Name	Y
Connector Type	POWER WINDOW POWER SUPPLY (IGN)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS18FM-CS



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

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



Terminal No.	Color of Wire	Signal Name (Specification)
72	L	ROOM ANT 2-
73	L	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	L	ROOM ANT 1-
79	R	ROOM ANT 1+

80	GR	NATS ANT AMP.
81	W	NATS ANT AMP.
82	R	IGN RELAY (F/B) CONT
83	GR	KYLS ENT RECEIVER (FRONT COMM)
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	O	ACC RELAY CONT
96	Y	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P/CLUTCH PEDAL POS SW
100	GR	PASSENGER DOOR REQUEST SW
101	Y	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	LG	KYLS ENT RECEIVER (FRONT PWR SUPPLY)
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	P	HAZARD SW

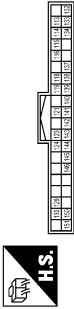
AUTO LIGHT SYSTEM

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[XENON TYPE]

AUTO LIGHT SYSTEM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



Terminal No.	Color of Wire	Signal Name (Specification)
113	O	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
115	O	-
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	W	IGN F / B
124	LG	PASSENGER DOOR SW
129	O	TRUNK LID OPENER CANCEL SW
130	L	REAR DEFOGGER SW
132	Y	P/W SW & SOFT TOP C/U COMM [Rearster models]
133	Y	POWER WINDOW SW COMM [Coupe models]
134	G	PUSH BUTTON IGNITION SW ILL POWER LOCK IN0
137	P	RECEIVER & SENSOR GND
138	V	RECEIVER & SENSOR POWER SUPPLY
139	L	THE PRESS RECEV COMM
140	G	P/N POSITION
141	Y	SECURITY INDICATOR
142	O	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

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DAYTIME RUNNING LIGHT SYSTEM

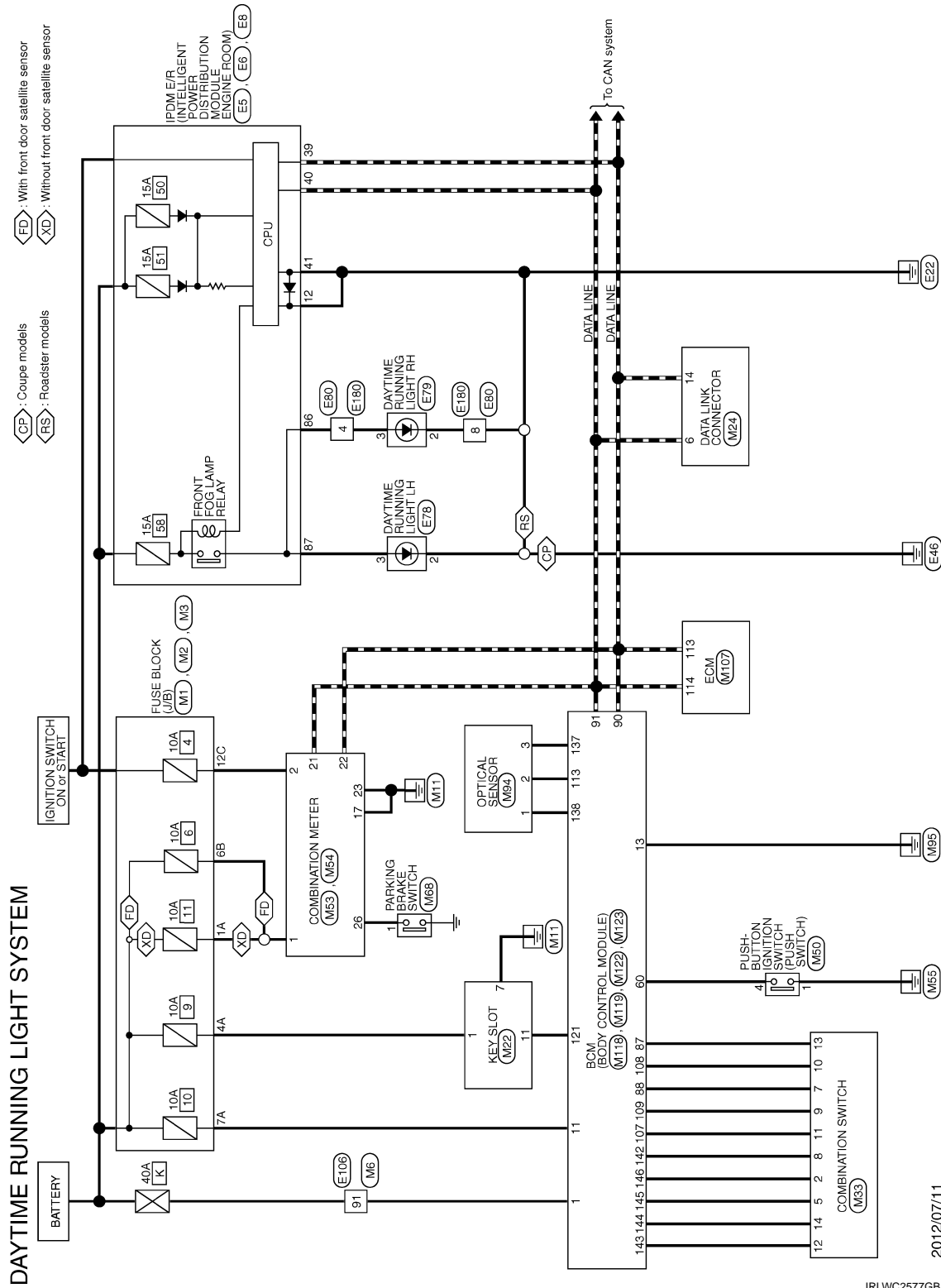
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[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Wiring Diagram

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DAYTIME RUNNING LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	INSTUFV-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	- [Coupe models]
2	R	- [Coupe models]
3	Y	- [Reader models]
4	G	-
5	GR	-
6	B	-
7	BR	-
8	LG	-
9	R	-
10	G	-

Connector No.	B8D
Connector Name	REAR COMBINATION LAMP LH
Connector Type	RS06FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	- [Coupe models]
3	Y	- [Reader models]
4	B	-
6	LG	-
8	B	-

Connector No.	B84
Connector Name	WIRE TO WIRE
Connector Type	RS08FE-PR



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

Connector No.	B87
Connector Name	REAR COMBINATION LAMP RH
Connector Type	RS06FGY-PR



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	-
4	W	-
7	B	-
8	L	-

Connector No.	B152
Connector Name	LICENSE PLATE LAMP LH
Connector Type	RK02FER



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

Connector No.	B153
Connector Name	LICENSE PLATE LAMP RH
Connector Type	RK02FER



Terminal No.	Color of Wire	Signal Name [Specification]

	1	B	-
	2	R	-

Connector No.	E5
Connector Name	FRONT INTELLIGENT POWER DISTRIBUTION MODULE (FRONT ENGINE)
Connector Type	TH20PFW-CS12-M-1V



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

DAYTIME RUNNING LIGHT SYSTEM

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[XENON TYPE]

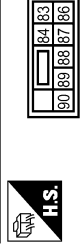
DAYTIME RUNNING LIGHT SYSTEM

Connector No.	E8
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FGY-PR



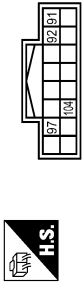
Terminal No.	Color of Wire	Signal Name (Specification)
39	P	-
40	L	-
41	B/W	-
42	Y	-
43	SB	-
44	W	-
45	G	-
46	V	-

Connector No.	E8
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name (Specification)
83	R	-
84	P	-
86	EG	-
87	R	-
88	G	-
89	BR	-
90	LG	-

Connector No.	E9
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name (Specification)
91	P	-
92	EG	-
97	V	-
104	LG	-

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FGY-PR



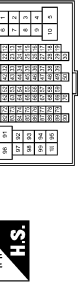
Terminal No.	Color of Wire	Signal Name (Specification)
3	B	-
4	B/W	-
5	R	-
6	LG	-
7	BR	-
8	P	-

Connector No.	E58
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name (Specification)
3	B	-
4	B/W	-
5	P	-
6	GR	-
7	LG	-
8	EG	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH88FV-C516-TM4



Terminal No.	Color of Wire	Signal Name (Specification)
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	B	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
20	LG	-
21	BR	-
21	G	-

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

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DAYTIME RUNNING LIGHT SYSTEM

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[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Connector No.	E117
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10MM-CS



Terminal No.	1	2	3	4	5	6	7	8	9	10
Color of Wire	Y	R	Y	G	GR	BG	BR	P	R	R
Signal Name (Specification)	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A



Terminal No.	32	36	37	38	39	40	41	42	43	44	45	46	47	58	59	70	80	81	82	83	84	85	86	87	91	92	93	94	96	97	98	99	100
Color of Wire	V	SB	Y	LG	SB	W	LG	R	G	R	O	G	BR	SHELD	L	R	LG	GR	V	V	L	BR	Y	G	P	W	P	P	Y	P	O	W	R
Signal Name (Specification)																																	



Terminal No.	3	4	5	6	7	8	11	14	16
Color of Wire	Y	B	B	L	Y	G	Y	LG	Y
Signal Name (Specification)									

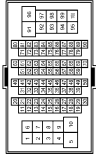


Terminal No.	1	2	3	4	5	6	7	8	9	10
Color of Wire	Y	R	Y	G	GR	BG	BR	P	R	R
Signal Name (Specification)										

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



Terminal No.	6C	7C	9C	10C	11C	12C
Color of Wire	R	B	O	L	LG	O
Signal Name (Specification)						

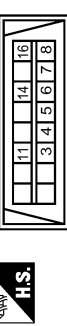


Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Color of Wire	P	SB	W	G	L	B	V	O	Y	R	LG	P	BR	G
Signal Name (Specification)	FR WASHER (-)	OUTPUT 4	WASHER MOTOR	WASHER MTR POWER SUPPLY	OUTPUT 3	GROUND	INPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	INPUT 5	OUTPUT 2	

Terminal No.	1	3	4	7	8	9	11	12	13	14	15	17	19	20	21	31
Color of Wire	Y	L	L	B	P	B	GR	GR	G	P	W	BR	BR	GR	R	BR
Signal Name (Specification)																

Terminal No.	1A	2A	3A	4A	5A	6A	7A	8A
Color of Wire	V	G	L	P	L	Y	BR	L
Signal Name (Specification)								

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



Terminal No.	3
Color of Wire	LG
Signal Name (Specification)	

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DAYTIME RUNNING LIGHT SYSTEM

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[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Connector No.	M63
Connector Name	COMBINATION METER
Connector Type	TH24EV-NH



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

Connector No.	M64
Connector Name	COMBINATION METER
Connector Type	TH18EV-NH



Terminal No.	Color of Wire	Signal Name [Specification]					
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

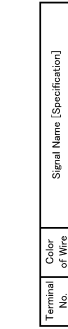
DAYTIME RUNNING LIGHT SYSTEM

Connector No.	M119
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	NS18FV-CS



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

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



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

Connector No.	M107
Connector Name	ECM
Connector Type	RH24GY-R2Z-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
87	R	ACCELERATOR PEDAL POSITION SENSOR 1
88	P	ACCELERATOR PEDAL POSITION SENSOR 2
99	L	SENSOR POWER SUPPLY
100	W	SENSOR GROUND

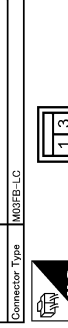
DAYTIME RUNNING LIGHT SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
101	SB	ASC2 STEERING SWITCH
102	GR	EVAP CONTROL SYSTEM PRESSURE SENSOR
103	G	SENSOR POWER SUPPLY
104	GR	SENSOR GROUND
105	L	REFRIGERANT PRESSURE SENSOR
106	W	FUEL TANK TEMPERATURE SENSOR
107	BR	SENSOR POWER SUPPLY
108	Y	SENSOR GROUND
109	G	PNP SIGNAL
110	R	ENGINE SPEED OUTPUT SIGNAL
112	SB	SENSOR GROUND
113	P	CAN COMMUNICATION LINE
114	L	CAN COMMUNICATION LINE
117	Y	DATA LINK CONNECTOR
121	LG	EVAP CANISTER VENT CONTROL VALVE
122	P	STOP LAMP SWITCH
123	B	ECM GROUND
124	B	ECM GROUND
125	R	POWER SUPPLY FOR ECM
126	BR	ASCD BRAKE SWITCH
127	B	ECM GROUND
128	B	ECM GROUND

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



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

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

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DAYTIME RUNNING LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FE-NH



Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



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

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

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

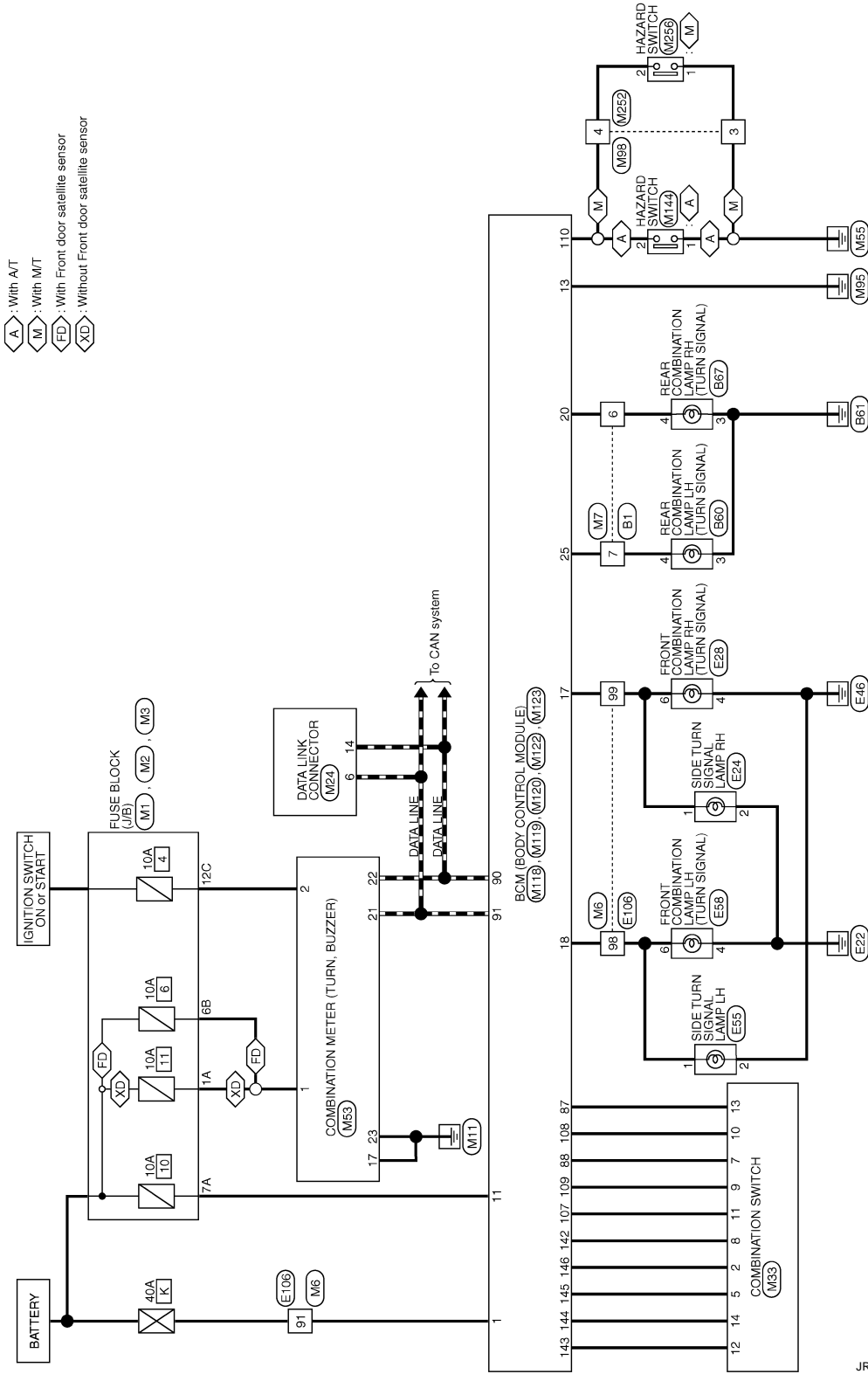
[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram

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TURN SIGNAL AND HAZARD WARNING LAMPS



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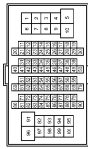
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMPS

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TR80FW-CST1E-TM4



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

Connector No.	E24
Connector Name	SIDE TURN SIGNAL LAMP RH
Connector Type	RS02FCY



Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	RS02FCY-PR



Terminal No.	Color of Wire	Signal Name (Specification)
1	V	--
2	B	--

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

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

Connector No.	B87
Connector Name	REAR COMBINATION LAMP RH
Connector Type	RS02FCY-PR



Terminal No.	Color of Wire	Signal Name (Specification)
1	V	--
2	B	--

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS02FCY-PR



Terminal No.	Color of Wire	Signal Name (Specification)
3	B	--
4	B/W	--
5	R	--
6	LG	--
7	BR	--
8	P	--

Terminal No.	Color of Wire	Signal Name (Specification)
1	LG	--
2	R	--
3	B	--
4	V	--
6	BG	--

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMPS

Connector No.	E55
Connector Name	SIDE TURN SIGNAL LAMP LH
Connector Type	FR02FGY



Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-OS1P-TM4



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

Connector No.	E58
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FGY-PR



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

Terminal No.	Color of Wire	Signal Name [Specification]
84	L	-
85	BG	-
86	LG	-
87	R	-
89	P	-
91	W	-
92	L	-
93	G	-
94	Y	-
96	Y	-
97	BR	-
98	GR	-
99	LG	-
100	BG	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



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

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FP-CS



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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMPS

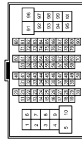
Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



Terminal No.	Color of Wire	Signal Name (Specification)
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	B	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	R	-
31	BR	-
32	V	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-
41	LG	-
42	R	-
43	G	-
44	R	-
45	O	-
46	G	-
47	BR	-
58	SHIELD	-
59	R	-
70	R	-
80	LG	-
81	GR	-
82	V	-
83	V	-
84	L	-

85	BR	-
86	Y	-
87	G	-
89	P	-
91	W	-
92	P	-
93	P	-
94	Y	-
96	P	-
97	GR	-
98	O	-
99	W	-
100	R	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



Terminal No.	Color of Wire	Signal Name (Specification)
1	BR	-
2	O	-
3	LG	-
4	O	-
6	V	-
7	LG	-
8	SB	-
9	GR	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
17	R	-
18	L	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	R	-
25	L	-
26	P	-

27	B	-
28	SHIELD	-
31	W	-
32	B	-
33	W	-
34	R	-
35	B	-
36	L	-
40	L	-
41	R	-
42	GR	-
43	R	-
44	R	-
45	O	-
46	SHIELD	- [Coupe models]
46	G	- [Reader models]
47	R	-
48	SHIELD	-
51	V	-
52	R	-
57	SHIELD	-
58	B	-
60	L	-
61	R	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	LG	-
67	V	-
68	SHIELD	-
69	L	-
70	P	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	W	-
82	BR	-
83	GR	-
84	L	-
85	LG	-
86	V	-
87	BR	-
88	V	-
89	SB	-
93	Y	-
94	SB	- [Coupe models]
94	L	- [Reader models]
95	GR	- [Coupe models]
95	W	- [Reader models]

96	L	-
97	LG	- [Coupe models]
97	Y	- [Reader models]
98	BG	- [Coupe models]
98	Y/B	- [Reader models]
99	W	-
100	B	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



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

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMPS

Connector No.	M433
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



9	BR	COMMUNICATION SIGNAL (METER->TRIPLE METER)
10	L	COMMUNICATION SIGNAL (TRIPLE METER->METER)
11	Y	AT SNOW
12	G	S-MODE SWITCH SIGNAL
15	L	ACC SWITCH SIGNAL
16	R	AIR BAG SIGNAL
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

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



Connector No.	M88
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	GR	-
4	P	-
5	B	-
6	L	-
7	B	-
8	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
2	O	BATTERY POWER SUPPLY
3	L	IGNITION SIGNAL
4	Y	VEHICLE SPEED SIGNAL (2-PULSE)
4	V	VEHICLE SPEED SIGNAL (3-PULSE) (Except for Mexico)
5	B	VEHICLE SPEED SIGNAL (3-PULSE) (For Mexico)
6	R	ILLUMINATION CONTROL SIGNAL
8	Y	ROOF STATUS SIGNAL POP-UP



Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M08FB-LC

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

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	N181FW-CS



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

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	N182FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
23	L	BACK DOOR OPEN OUTPUT (Couple models)
23	Y	TRUNK LID OPEN OUTPUT (Rearster models)
24	O	REAR FOG OUTPUT

25	LG	TURN SIGNAL LH (REAR)
30	R	LUGGAGE/TRUNK ROOM LAMP OUTPUT

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH48FB-NH



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

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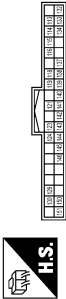
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMPS

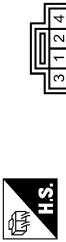
Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH0FC-NH



Connector No.	M144
Connector Name	HAZARD SWITCH
Connector Type	TK0FW



Connector No.	M256
Connector Name	HAZARD SWITCH
Connector Type	TK0FW



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

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

Connector No.	M252
Connector Name	WIRE TO WIRE
Connector Type	TH0BMW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	- [Coupe models]
1	O	- [Roadster models]
2	SB	-
3	B	-
4	G	-
5	B	-
6	L	-
7	G	-
8	G	-

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

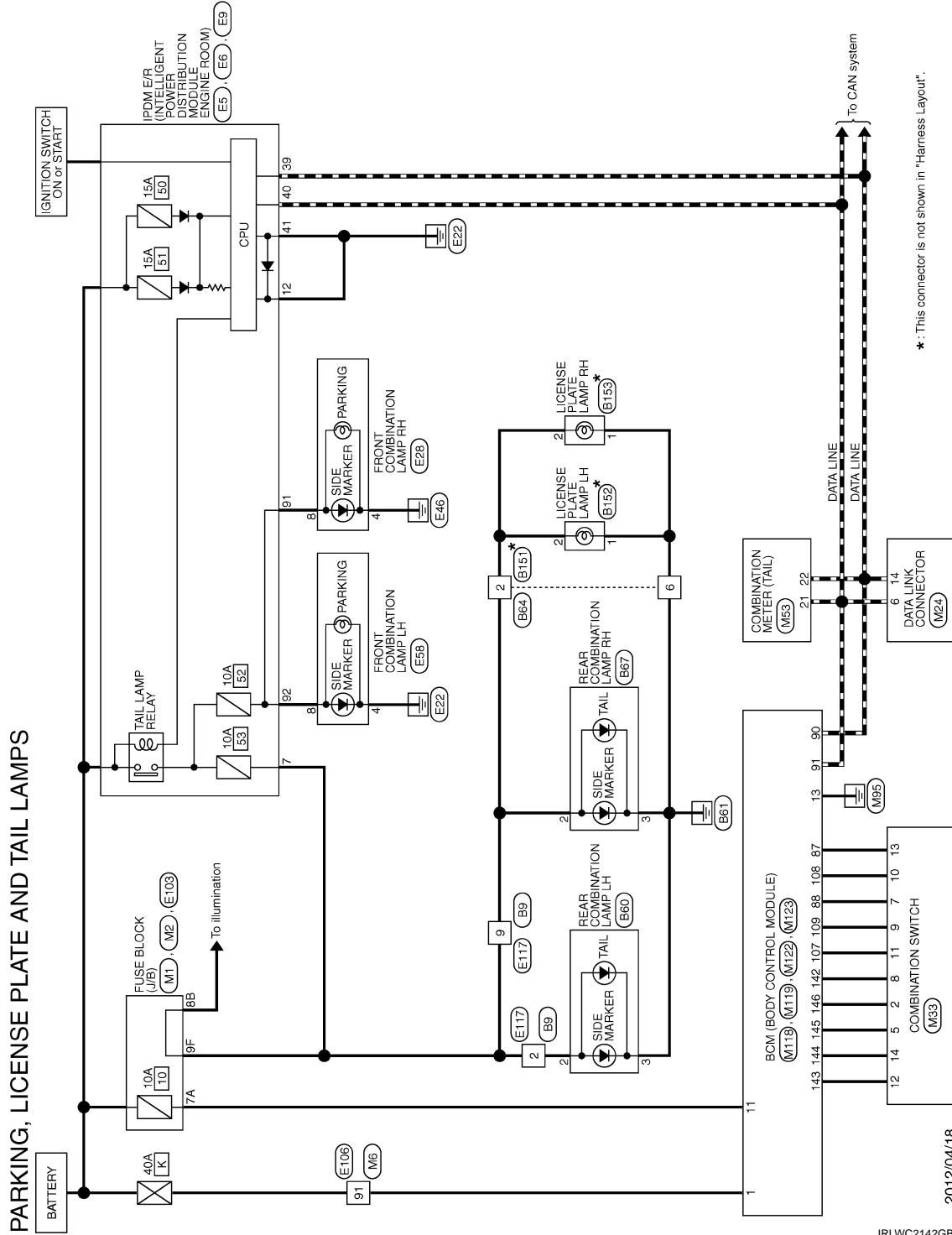
< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram

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*: This connector is not shown in "Harness Layout".

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM



< WIRING DIAGRAM >

[XENON TYPE]

Connector No. BB

Connector Name WIRE TO WIRE

Connector Type INSTUPN-CS






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

Connector No. B84

Connector Name WIRE TO WIRE

Connector Type RSD8FE-PR






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

Connector No. B87

Connector Name REAR COMBINATION LAMP RH

Connector Type RSD8FGY-PR






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

Connector No. B80

Connector Name REAR COMBINATION LAMP LH

Connector Type RSD8FGY-PR






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

Connector No. B151

Connector Name WIRE TO WIRE

Connector Type RSD8MB


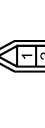



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	-
4	W	-
7	B	-
8	L	-

Connector No. B152

Connector Name LICENSE PLATE LAMP LH

Connector Type RK02FER


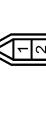



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	R	-

Connector No. B153

Connector Name LICENSE PLATE LAMP RH

Connector Type RK02FER






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

Connector No. B5

Connector Name FROM E-P INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ENGINE)

Connector Type TH20PW-CS12-M-1V

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

JRLWC4780GB

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS

Connector No.	E8
Connector Name	FROM E8 INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH86FW-NH



Terminal No.	Color of Wire	Signal Name (Specification)
39	P	-
40	L	-
41	B/W	-
42	Y	-
43	SB	-
44	W	-
45	G	-
46	V	-

Connector No.	E9
Connector Name	FROM E8 INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name (Specification)
91	P	-
92	BG	-
97	V	-
104	LG	-

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FCY-PR



Terminal No.	Color of Wire	Signal Name (Specification)
3	B	-
4	B/W	-
5	R	-
6	LG	-
7	BR	-
8	P	-

Connector No.	E58
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FCY-PR



Terminal No.	Color of Wire	Signal Name (Specification)
3	B	-
4	B/W	-
5	P	-
6	GR	-
7	LG	-
8	BG	-

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name (Specification)
1F	SB	-
2F	W	-
4F	G	-
6F	BG	-
8F	L	-
9F	R	- [Coupe models]
	V	- [Roadster models]
11F	W	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH86FW-CS1F-TMA



Terminal No.	Color of Wire	Signal Name (Specification)
1	Y	-
3	L	-
4	L	-
7	B	-
8	B	-
9	B	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
20	LG	-

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

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EXL

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS

Connector No.	E117
Connector Name	WIRE TO WIRE
Connector Type	NS10MM-CS



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name (Specification)
1	Y	-
2	R	-
3	Y	-
4	G	-
5	GR	-
6	BG	-
7	BR	-
8	P	-
9	R	-
10	R	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



3A	2A	1A
8A	7A	6A
5A	4A	3A

Terminal No.	Color of Wire	Signal Name (Specification)
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	L	-
6A	Y	-
7A	BR	-
8A	L	-

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



4B	3B
8B	7B
6B	5B

Terminal No.	Color of Wire	Signal Name (Specification)
3B	P	-
4B	G	-
5B	O	-
6B	Y	-
7B	R	-
8B	SB	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name (Specification)
1	Y	-
2	L	-
3	L	-
4	L	-
7	B	-
8	P	-
9	B	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
18	W	-
19	BR	-
20	GR	-
21	R	-
31	BR	-

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

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



1	2	3	4	5	6
7	8	9	10	11	12
13	14				

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

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



11	14	16
3	4	5
6	7	8

Terminal No.	Color of Wire	Signal Name (Specification)
3	LG	- [Coupe models]

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS

Connector No.	M65
Connector Name	COMBINATION METER
Connector Type	TH24FV-NH



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

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

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



1	2	3
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Terminal No.	Color of Wire	Signal Name [Specification]
1	L	ROOM ANT 2-
2	P	ROOM ANT 2-
3	SB	PASSENGER DOOR ANT-
4	BR	PASSENGER DOOR ANT-
5	V	DRIVER DOOR ANT-
6	LG	DRIVER DOOR ANT+

1	W	BAT (F/L)
2	W	POWER WINDOW POWER SUPPLY (BAT)
3	Y	POWER WINDOW POWER SUPPLY (IGN)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS18FV-OS



4	5	8	9			
11	13	14	15	17	18	19

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

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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78	L	ROOM ANT 1-
79	R	ROOM ANT 1+
80	GR	NATS ANT AMP.
81	W	NATS ANT AMP.
82	R	IGN RELAY (F/B) CONT
83	GR	KYLS ENT RECEIVER (FRONT) COMM
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	O	ACC RELAY CONT
96	Y	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P/CLUTCH PEDAL POS SW
100	GR	PASSENGER DOOR REQUEST SW
101	Y	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	LG	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	P	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	11
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STOP LAMP

< WIRING DIAGRAM >

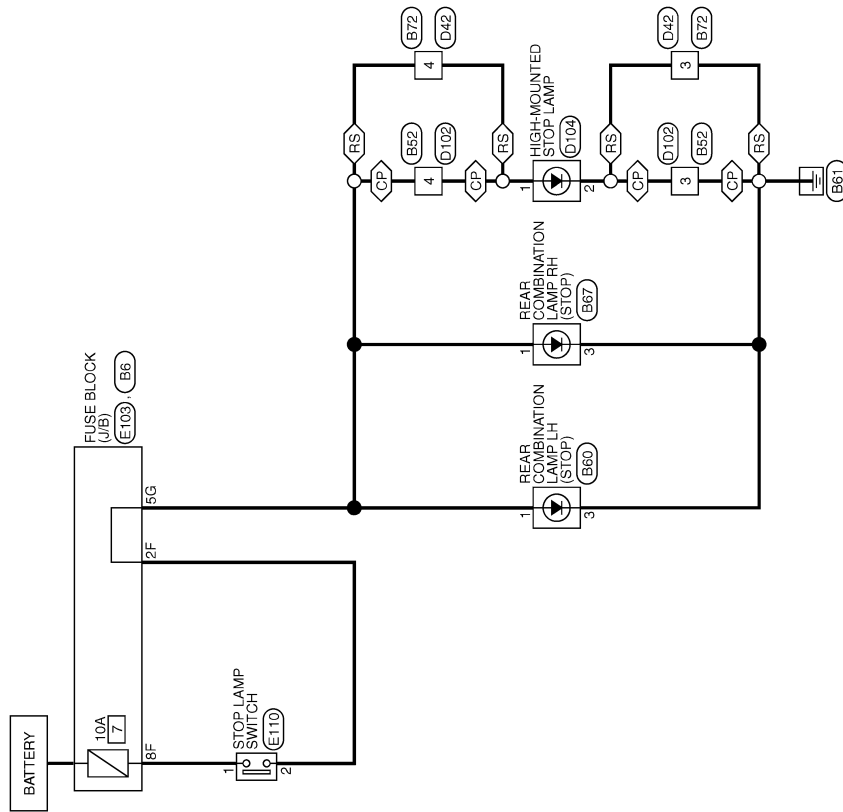
[XENON TYPE]

STOP LAMP

Wiring Diagram

INFOID:000000009362911

CP : Coupe models
RS : Roadster models



STOP LAMP

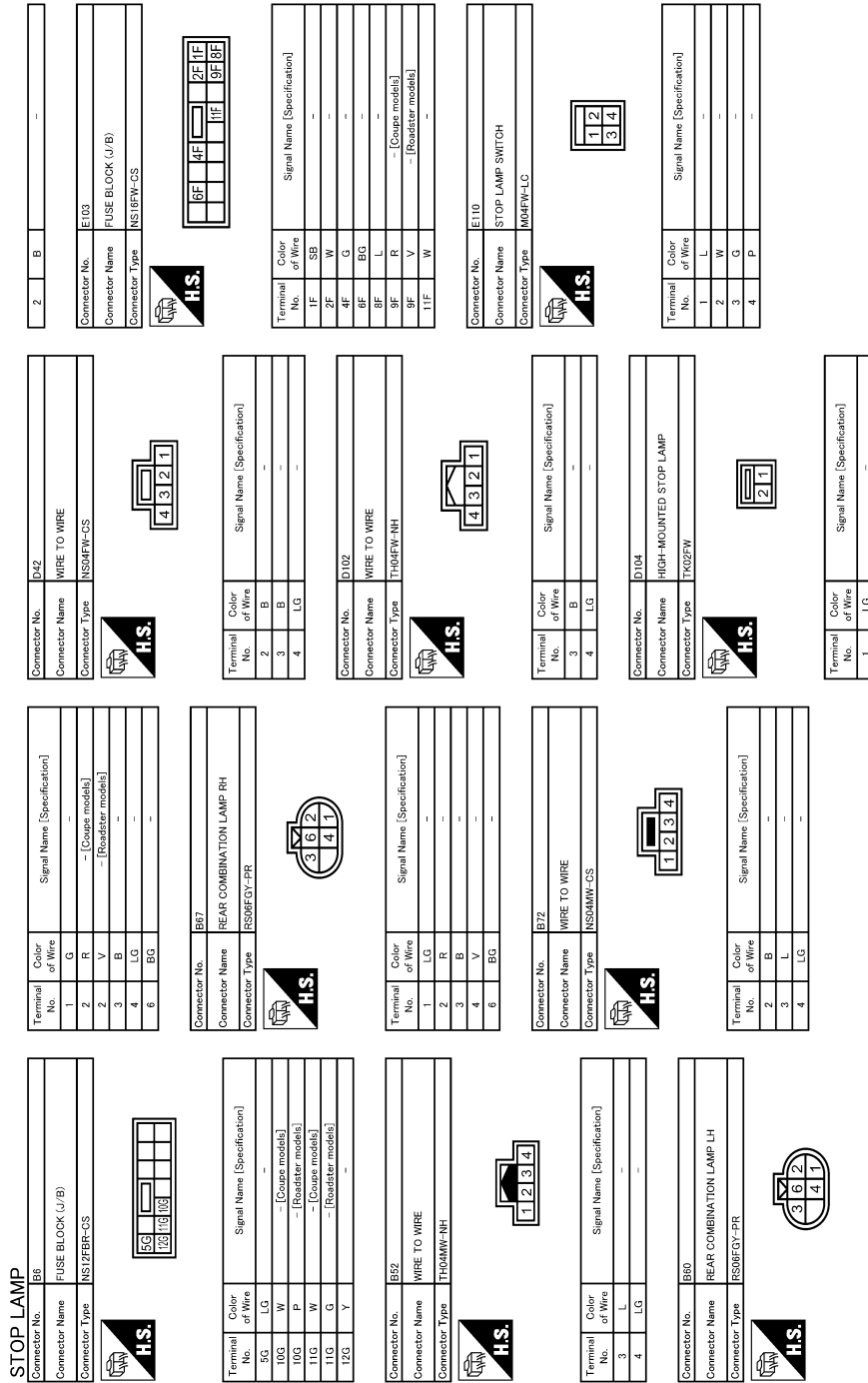
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STOP LAMP

< WIRING DIAGRAM >

[XENON TYPE]



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BACK-UP LAMP

< WIRING DIAGRAM >

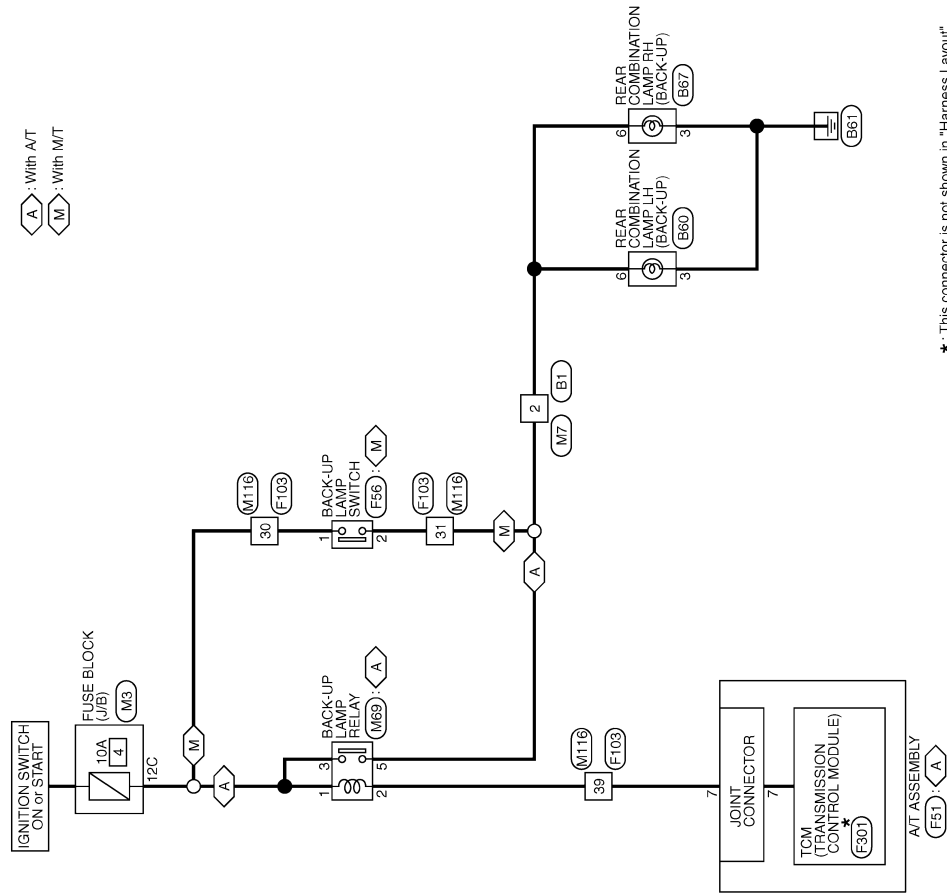
[XENON TYPE]

BACK-UP LAMP

Wiring Diagram

INFOID:000000009362912

BACK-UP LAMP



*: This connector is not shown in "Harness Layout".

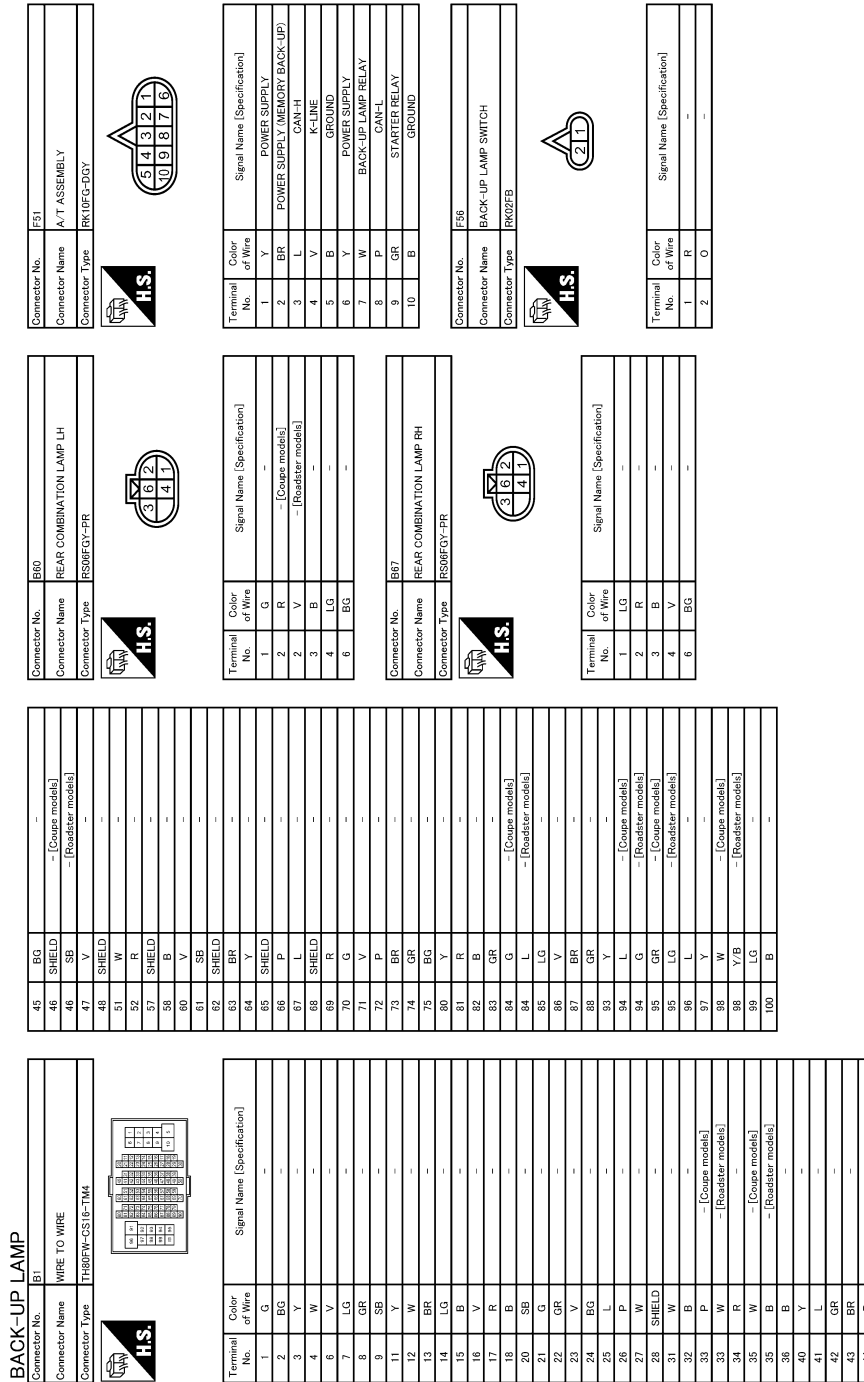
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BACK-UP LAMP

< WIRING DIAGRAM >

[XENON TYPE]

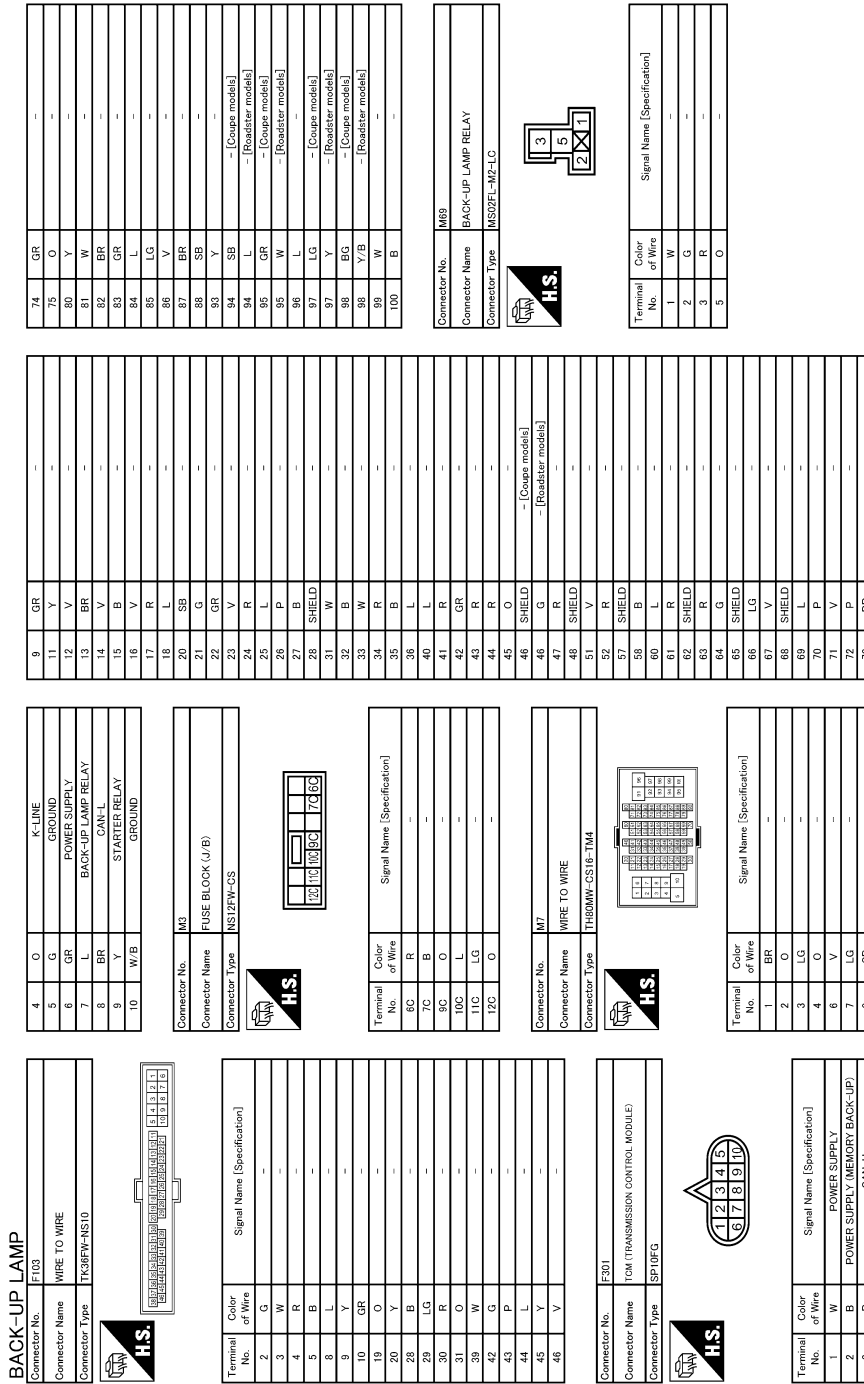


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BACK-UP LAMP

< WIRING DIAGRAM >

[XENON TYPE]



JRLWC4778GB

BACK-UP LAMP

< WIRING DIAGRAM >

[XENON TYPE]

BACK-UP LAMP

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MV-HS10



Terminal No.	Color of Wire	Signal Name (Specification)
2	W	-
3	BG	- [Coupe models]
3	O	- [Roadster models]
4	W	-
5	B	-
8	L	-
9	Y	-
10	R	-
19	O	-
20	G	-
28	B	-
29	LG	-
30	LG	-
31	O	-
39	G	-
42	G	-
43	P	-
44	L	-
45	BR	-
46	V	-

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JRLWC4779GB

REAR FOG LAMP SYSTEM

< WIRING DIAGRAM >

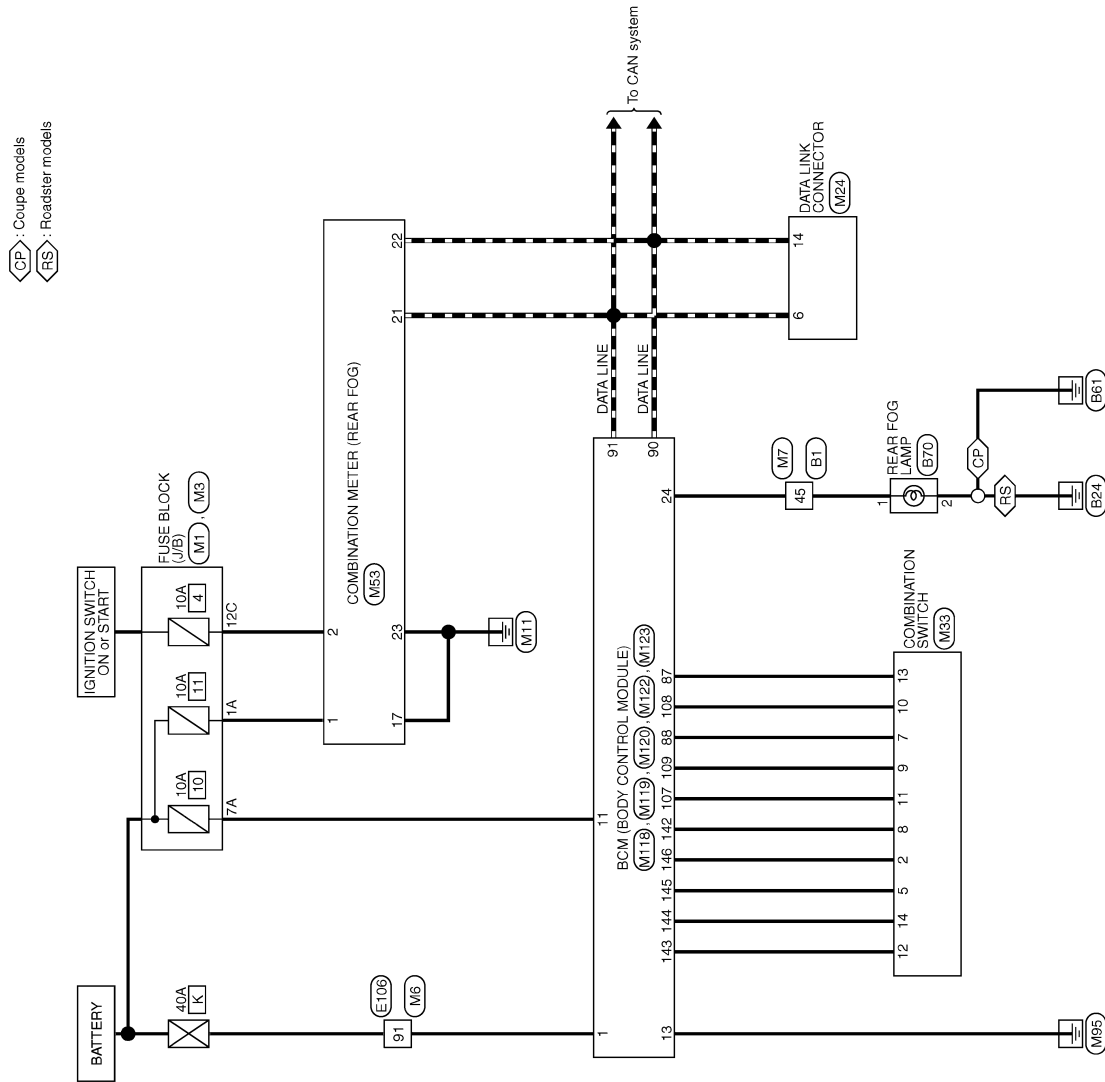
[XENON TYPE]

REAR FOG LAMP SYSTEM

Wiring Diagram

INFOID:00000009362913

REAR FOG LAMP



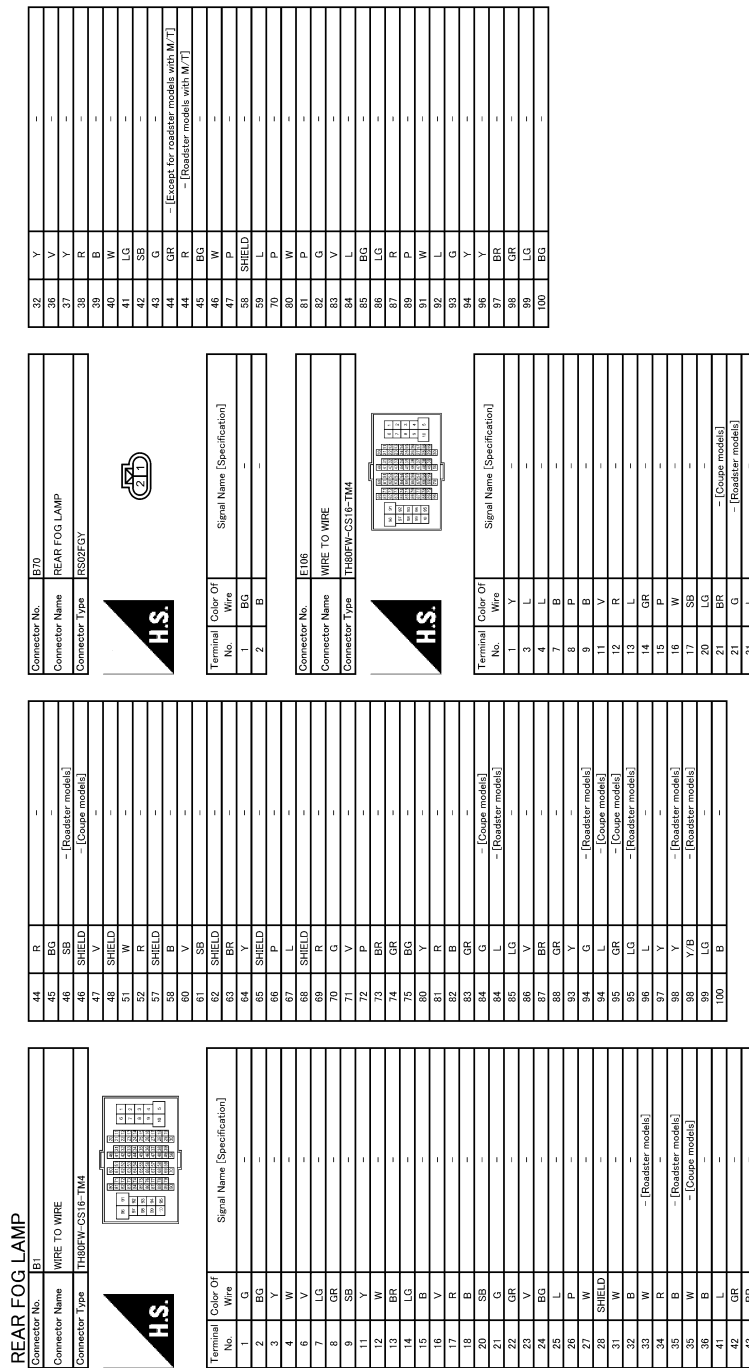
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REAR FOG LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]



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REAR FOG LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

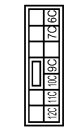
REAR FOG LAMP

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



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

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



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	O	-
9C	R	-
8C	O	-
7C	R	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	L	-
3	L	-
4	L	-
5	B	-
6	P	-
7	B	-
8	P	-
9	B	-
10	GR	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	GR	-
19	BR	-
20	GR	-
21	BR	-
22	V	-
23	SB	-
24	V	-
25	Y	-
26	LG	-
27	SB	-
28	W	-
29	W	-
30	W	-
31	LG	-
32	G	-
33	G	-
34	G	-
35	G	-
36	SB	-
37	SB	-
38	LG	-
39	SB	-
40	W	-
41	LG	-
42	R	-
43	G	-
44	G	-
45	O	-
46	O	-
47	BR	-
48	BR	-
49	SHIELD	-
50	L	-
51	R	-
52	LG	-
53	R	-
54	LG	-
55	R	-
56	LG	-
57	V	-
58	SHIELD	-
59	L	-
60	W	-
61	W	-
62	W	-
63	W	-
64	W	-
65	W	-
66	W	-
67	W	-
68	W	-
69	W	-
70	W	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
76	W	-
77	W	-
78	W	-
79	W	-
80	W	-
81	W	-
82	V	-

83	V	-
84	L	-
85	BR	-
86	Y	-
87	G	-
88	P	-
89	W	-
90	W	-
91	W	-
92	P	-
93	P	-
94	Y	-
95	P	-
96	GR	-
97	GR	-
98	O	-
99	W	-
100	R	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	LG	-
4	O	-
5	V	-
6	W	-
7	LG	-
8	SB	-
9	GR	-
10	Y	-
11	V	-
12	BR	-
13	BR	-
14	W	-
15	B	-
16	V	-
17	R	-
18	L	-
19	L	-
20	SB	-
21	G	-
22	GR	-

93	V	-
94	R	-
95	L	-
96	P	-
97	B	-
98	SHIELD	-
99	W	-
100	B	-
101	W	-
102	B	-
103	W	-
104	P	-
105	W	-
106	B	-
107	R	-
108	GR	-
109	R	-
110	R	-
111	R	-
112	R	-
113	R	-
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197	R	-
198	R	-
199	R	-
200	R	-

REAR FOG LAMP SYSTEM

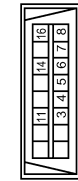
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[XENON TYPE]

REAR FOG LAMP

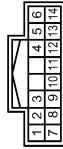
Terminal No.	Color Of Wire	Signal Name [Specification]
93	Y	-
94	SP	- [Roadster models]
95	GR	- [Coupe models]
96	W	- [Roadster models]
97	L	- [Roadster models]
98	Y/B	- [Roadster models]
99	W	-
100	B	-

Connector No.	M21
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FN



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

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



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

Connector No.	M35
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY POWER SUPPLY
2	O	IGNITION SIGNAL
3	L	VEHICLE SPEED SIGNAL (Z-PULSE)
4	Y	VEHICLE SPEED SIGNAL (P-PULSE) (Except for Model)
5	B	ILLUMINATION CONTROL SIGNAL
6	R	ROOF STATUS SIGNAL

Terminal No.	Color Of Wire	Signal Name [Specification]
9	BR	COMMUNICATION SIGNAL (METER - TRIPLE METER)
10	L	COMMUNICATION SIGNAL (METER - TRIPLE METER)
12	L	SMOKE SWITCH SIGNAL
15	L	ACC-POWER SUPPLY
16	R	AIR BAG SIGNAL
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO-AMP CONNECTION/RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	GROUND
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS3FB-LC



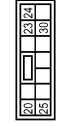
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (E/L)
2	W	POWER WINDOW-POWER SUPPLY (BAT)
3	Y	POWER WINDOW-POWER SUPPLY (IGN)

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



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

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FN-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
20	W	TURN SIGNAL RH (REAR)
23	Y	TRUNK LID OPEN OUTPUT [Roadster models]
24	O	REAR FOG OUTPUT
25	LG	TURN SIGNAL LH (REAR)
30	R	LUGGAGE/TRUNK ROOM LAMP OUTPUT

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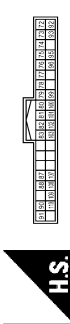
REAR FOG LAMP SYSTEM

< WIRING DIAGRAM >

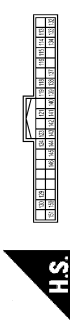
[XENON TYPE]

REAR FOG LAMP

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



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



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

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

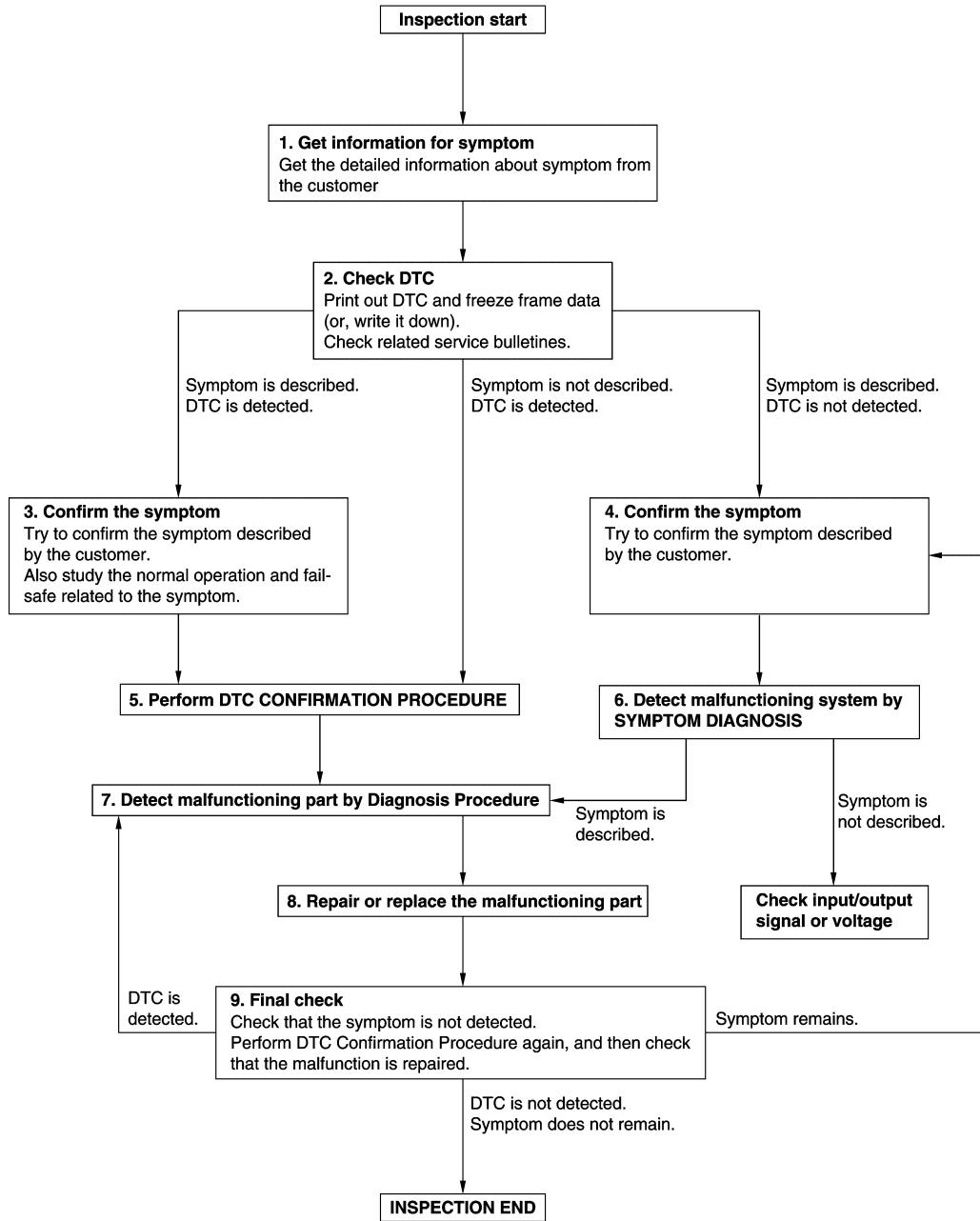
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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OVERALL SEQUENCE



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DETAILED FLOW

DIAGNOSIS AND REPAIR WORKFLOW

[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).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

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

Are any symptoms described and any DTC detected?

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

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

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

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

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

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to DTC INSPECTION PRIORITY CHART, and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

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

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

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

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORKFLOW

[XENON TYPE]

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

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

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

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EXTERIOR LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

DTC/CIRCUIT DIAGNOSIS

EXTERIOR LAMP FUSE

Description

INFOID:000000009362915

Fuse list

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	#54	10 A
Headlamp HI (RH)	IPDM E/R	#55	10 A
Headlamp LO (LH)	IPDM E/R	#56	15 A
Headlamp LO (RH)	IPDM E/R	#57	15 A
<ul style="list-style-type: none">• Parking lamp• Front side marker lamp	IPDM E/R	#52	10 A
<ul style="list-style-type: none">• Tail lamp• Rear side marker lamp• License plate lamp• Each illumination	IPDM E/R	#53	10 A
Daytime running light	IPDM E/R	#58	15 A
Stop lamp	FUSE BLOCK (J/B)	#7	10 A
Back-up lamp	FUSE BLOCK (J/B)	#4	10 A

Diagnosis Procedure

INFOID:000000009362916

1. CHECK FUSE

Check that the following fuses are not fusing.

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	#54	10 A
Headlamp HI (RH)	IPDM E/R	#55	10 A
Headlamp LO (LH)	IPDM E/R	#56	15 A
Headlamp LO (RH)	IPDM E/R	#57	15 A
<ul style="list-style-type: none">• Parking lamp• Front side marker lamp	IPDM E/R	#52	10 A
<ul style="list-style-type: none">• Tail lamp• Rear side marker lamp• License plate lamp• Each illumination	IPDM E/R	#53	10 A
Daytime running light	IPDM E/R	#58	15 A
Stop lamp	FUSE BLOCK (J/B)	#7	10 A
Back-up lamp	FUSE BLOCK (J/B)	#4	10 A

Is the fuse fusing?

- YES >> Repair the applicable circuit. And then replace the fuse.
NO >> The fuse is normal.

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

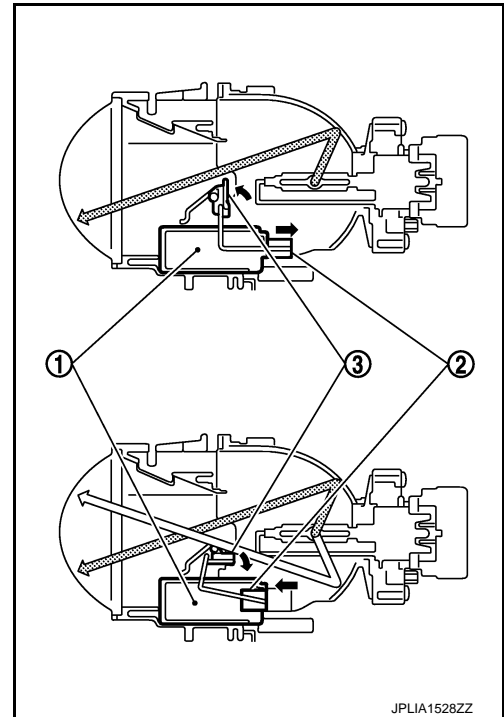
HEADLAMP (HI) CIRCUIT

Description

INFOID:000000009362917

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

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



Component Function Check

INFOID:000000009362918

1. CHECK HEADLAMP (HI) OPERATION

IPDM E/R AUTO ACTIVE TEST

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

CONSULT ACTIVE TEST

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

Hi : Headlamp switches to the high beam.

Off : Headlamp OFF

NOTE:

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

Does the headlamp switch to the high beam?

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

Diagnosis Procedure

INFOID:000000009362919

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

CONSULT ACTIVE TEST

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

HEADLAMP (HI) CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Does continuity exist?

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

3.CHECK HEADLAMP (HI) FUSE

- Turn the ignition switch OFF.
- 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.
- Check continuity between the IPDM E/R harness connector terminal and the ground.

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

Does continuity exist?

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

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

HEADLAMP (LO) CIRCUIT

Description

INFOID:000000009362920

Headlamp (LO) circuit is connected to HID control unit integrated in the headlamp. Headlamp (LO) circuit turns xenon headlamp ON.

For the details of HID control unit and the xenon headlamp, refer to [EXL-79, "Description"](#).

Component Function Check

INFOID:000000009362921

1. CHECK HEADLAMP (LO) OPERATION

IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#).
2. Check that the headlamp is turned ON.

CONSULT ACTIVE TEST

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

Lo : Headlamp ON

Off : Headlamp OFF

Is the headlamp turned ON?

YES >> Headlamp (LO) is normal.

NO >> Refer to [EXL-77, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009362922

1. CHECK HEADLAMP (LO) OUTPUT VOLTAGE

CONSULT ACTIVE TEST

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

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

Is the measurement value normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK HEADLAMP (LO) OPEN CIRCUIT

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

HEADLAMP (LO) CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

3. CHECK HEADLAMP (LO) FUSE

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

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

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4. CHECK HEADLAMP (LO) SHORT CIRCUIT

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
RH	E8		Not existed
LH			

Does continuity exist?

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

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

5. CHECK HEADLAMP GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Perform the xenon headlamp diagnosis. Refer to [EXL-79, "Description"](#).

NO >> Repair the harnesses or connectors.

XENON HEADLAMP

Description

INFOID:000000009362923

OUTLINE

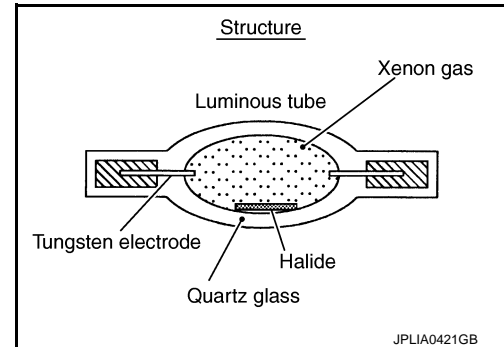
- The lamp light source is by the arch discharge by applying high voltage into the xenon gas-filled bulb instead of the halogen bulb filament.
- Sight becomes more natural and brighter because the amount of light are gained adequately and the color of light is sunshine-like white.
- The xenon bulb drops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

ILLUMINATION PRINCIPLE

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

NOTE:

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



PRECAUTIONS FOR TROUBLE DIAGNOSIS

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

WARNING:

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

CAUTION:

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

NOTE:

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

Diagnosis Procedure

INFOID:000000009362924

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?

XENON HEADLAMP

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

3.CHECK XENON HEADLAMP HOUSING ASSEMBLY

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

Is the headlamp turned ON?

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

DAYTIME RUNNING LIGHT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

DAYTIME RUNNING LIGHT CIRCUIT

Component Function Check

INFOID:000000009362925

1. CHECK DAYTIME RUNNING LIGHT OPERATION

⊗ IPDM E/R AUTO ACTIVE TEST

1. Activate IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#).
2. Check that the daytime running light is turned ON.

Ⓜ CONSULT ACTIVE TEST

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

Fog : Daytime running light ON

Off : Daytime running light OFF

Is the daytime running light turned ON?

- YES >> Daytime running light circuit is normal.
 NO >> Refer to [EXL-81, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009362926

1. CHECK DAYTIME RUNNING LIGHT FUSE

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

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

Is the fuse fusing?

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

2. CHECK DAYTIME RUNNING LIGHT SHORT CIRCUIT

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

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

Does continuity exist?

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

3. CHECK DAYTIME RUNNING LIGHT UNIT

Check the applicable daytime running light unit.

Is the bulb normal?

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

4. CHECK DAYTIME RUNNING LIGHT OUTPUT VOLTAGE

Ⓜ CONSULT ACTIVE TEST

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

DAYTIME RUNNING LIGHT CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

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

Is the measurement value normal?

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

5. CHECK DAYTIME RUNNING LIGHT OPEN CIRCUIT

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

IPDM E/R		Daytime running light		Continuity
Connector	Terminal	Connector	Terminal	
RH	E8	E79	3	Existed
LH		E78	3	

Does continuity exist?

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

6. CHECK DAYTIME RUNNING LIGHT GROUND CIRCUIT OPEN CIRCUIT

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

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

Does continuity exist?

- YES >> Refer to [GI-45, "Intermittent Incident"](#).
 NO >> Repair the harnesses or connectors.

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

PARKING LAMP CIRCUIT

Component Function Check

INFOID:000000009362927

1.CHECK PARKING LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST

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

CONSULT ACTIVE TEST

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

TAIL : Parking lamp ON

Off : Parking lamp OFF

Is the parking lamp turned ON?

- YES >> Parking lamp circuit is normal.
NO >> Refer to [EXL-83, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009362928

1.CHECK PARKING LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
<ul style="list-style-type: none">• Parking lamp• Front side marker lamp	IPDM E/R	#52	10 A

Is the fuse fusing?

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

2.CHECK PARKING LAMP SHORT CIRCUIT

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

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

Does continuity exist?

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

3.CHECK PARKING LAMP BULB AND FRONT SIDE MARKER LAMP

Check the applicable lamp bulb.

Is the bulb normal?

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

4.CHECK PARKING LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST

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

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PARKING LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

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

Is the measurement value normal?

YES >> GO TO 5.

NO >> Replace IPDM E/R.

5. CHECK PARKING LAMP OPEN CIRCUIT

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

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

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

6. CHECK PARKING LAMP GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

TURN SIGNAL LAMP CIRCUIT

Description

INFOID:000000009362929

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:000000009362930

1. CHECK TURN SIGNAL LAMP

CONSULT ACTIVE TEST

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

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

Does the turn signal lamp blink?

- YES >> Turn signal lamp circuit is normal.
- NO >> Refer to [EXL-85. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009362931

1. CHECK TURN SIGNAL LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

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

2. CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST

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

Front/side

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

TURN SIGNAL LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

Rear

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace BCM.

3. CHECK TURN SIGNAL LAMP OPEN CIRCUIT

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

Front turn signal lamp

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

Side turn signal lamp

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

Rear turn signal lamp

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

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector and the ground.

Front/side

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

TURN SIGNAL LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

Rear

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

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Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 5.

C

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.

D

Front turn signal lamp

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

E

F

Side turn signal lamp

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

G

H

Rear turn signal lamp

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

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J

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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OPTICAL SENSOR

Description

INFOID:000000009362932

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

Component Function Check

INFOID:000000009362933

1. CHECK OPTICAL SENSOR SIGNAL BY CONSULT

CONSULT DATA MONITOR

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

Monitor item	Condition	Voltage (Approx.)
OPTICAL SENSOR	Optical sensor	When illuminating
		When shutting off light
		3.1 V or more *
		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:000000009362934

1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

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

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

Is the measurement value normal?

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

2. CHECK OPTICAL SENSOR GROUND INPUT

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

Terminals			
(+)	(-)		
Optical sensor		Ground	Voltage (Approx.)
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

OPTICAL SENSOR

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

Terminals		Condition	Voltage (Approx.)
(+)	(-)		
Optical sensor		Optical sensor	
Connector	Terminal		
M94	2	When illuminating	3.1 V or more *
		When shutting off light	0.6 V or less

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

Is the measurement value normal?

YES >> GO TO 7.

NO >> Replace the optical sensor.

4. CHECK OPTICAL SENSOR OPEN CIRCUIT

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

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

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

5. CHECK OPTICAL SENSOR SHORT CIRCUIT

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

Optical sensor		Ground	Continuity
Connector	Terminal		
M94	1		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

6. CHECK OPTICAL SENSOR GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Replace BCM.

NO >> Repair the harnesses or connectors.

7. CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

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

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OPTICAL SENSOR

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

Does continuity exist?

YES >> GO TO 8.

NO >> Repair the harnesses or connectors.

8.CHECK OPTICAL SENSOR SHORT CIRCUIT

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

Optical sensor		Ground	Continuity
Connector	Terminal		
M94	2		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

HAZARD SWITCH

Component Function Check

INFOID:000000009362935

1.CHECK HAZARD SWITCH SIGNAL BY CONSULT

CONSULT DATA MONITOR

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

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

Is the item status normal?

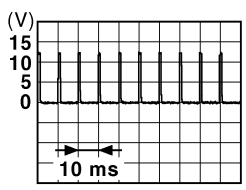
- YES >> Hazard switch circuit is normal.
 NO >> Refer to [EXL-91, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009362936

1.CHECK HAZARD SWITCH SIGNAL INPUT

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

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

JPMAA0012GB

Is the measurement value normal?

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

2.CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect the hazard switch connector and BCM connector.
- Check continuity between the hazard switch harness connector and the BCM harness connector.

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

Does continuity exist?

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

3.CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

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

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HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Hazard switch		Ground	Continuity
Connector	Terminal		
M144	2		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 4.

4.CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

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

Hazard switch		Ground	Continuity
Connector	Terminal		
M144	1		Existed

Does continuity exist?

YES >> Replace the hazard switch.

NO >> Repair the harnesses or connectors.

TAIL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

TAIL LAMP CIRCUIT

Component Function Check

INFOID:000000009362937

1. CHECK TAIL LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST

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

CONSULT ACTIVE TEST

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

TAIL : Tail lamp ON

Off : Tail lamp OFF

Is the tail lamp turned ON?

YES >> Tail lamp circuit is normal.

NO >> Refer to [EXL-93, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009362938

1. CHECK TAIL LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
<ul style="list-style-type: none"> • 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.

2. CHECK TAIL LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace IPDM E/R.

3. CHECK TAIL LAMP OPEN CIRCUIT

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

TAIL LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

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

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TAIL LAMP GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Replace the rear combination lamp.

NO >> Repair the harnesses or connectors.

LICENSE PLATE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

LICENSE PLATE LAMP CIRCUIT

Component Function Check

INFOID:000000009362939

NOTE:

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

1. CHECK LICENSE PLATE LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST

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

CONSULT ACTIVE TEST

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

TAIL : License plate lamp ON

Off : License plate lamp OFF

Is the license plate lamp turned ON?

- YES >> License plate lamp circuit is normal.
NO >> Refer to [EXL-95, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009362940

1. CHECK LICENSE PLATE LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

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

2. CHECK LICENSE PLATE LAMP OPEN CIRCUIT

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

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

Does continuity exist?

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

3. CHECK LICENSE PLATE LAMP GROUND OPEN CIRCUIT

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

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

Does continuity exist?

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

REAR FOG LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

REAR FOG LAMP CIRCUIT

Component Function Check

INFOID:000000009362941

1. CHECK REAR FOG LAMP OPERATION

CONSULT ACTIVE TEST

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

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

Is rear fog lamp turned ON?

- YES >> Rear fog lamp circuit is normal.
NO >> Refer to [EXL-96, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009362942

1. CHECK REAR FOG LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

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

2. CHECK REAR FOG LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST

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

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

Is the measurement value normal?

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

3. CHECK REAR FOG LAMP OPEN CIRCUIT

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

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

Does continuity exist?

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

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.

BCM		Ground	Continuity
Connector	Terminal		
M120	24		Not existed

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

5. CHECK REAR FOG LAMP GROUND OPEN CIRCUIT

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

Rear fog lamp		Ground	Continuity
Connector	Terminal		
B70	2		Existed

Does continuity exist?

YES >> Replace the rear fog lamp.

NO >> Repair the harnesses or connectors.

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EXL

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000009362943

NOTE:

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

Symptom		Possible cause	Inspection item
Headlamp does not switch to the high beam.	One side	<ul style="list-style-type: none"> 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 EXL-75 .
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM" Refer to EXL-102 .	
High beam indicator lamp is not turned ON. (Headlamp switches to the high beam.)		Combination meter	<ul style="list-style-type: none"> Combination meter Data monitor "HI-BEAM IND" BCM (HEAD LAMP) Active test "HEADLAMP"
Headlamp does not switch to the low beam.	One side	Front combination lamp (High beam solenoid)	—
	Both sides	<ul style="list-style-type: none"> Combination switch Harness between the combination switch and BCM BCM 	Combination switch Refer to BCS-102 .
		High beam request signal	IPDM E/R Data monitor "HL HI REQ"
		IPDM E/R	—
Headlamp is not turned ON.	One side	<ul style="list-style-type: none"> 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 "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-103 .	
Headlamp is not turned OFF.	When the ignition switch is turned ON		
	The ignition switch is turned OFF (After activating the battery saver).	IPDM E/R	—
Headlamp is not turned ON/OFF with the lighting switch AUTO.		<ul style="list-style-type: none"> Combination switch Harness between the combination switch and BCM BCM 	Combination switch Refer to BCS-102 .
		<ul style="list-style-type: none"> Optical sensor Harness between the optical sensor and BCM BCM 	Optical sensor Refer to EXL-88 .

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

Symptom	Possible cause	Inspection item	
Daytime running light is not turned ON.	<ul style="list-style-type: none"> • 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 ON.	<ul style="list-style-type: none"> • 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 EXL-83 .	
Tail lamp is not turned ON.	<ul style="list-style-type: none"> • 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 turned ON.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Fuse • Harness between IPDM E/R and the rear combination lamp • IPDM E/R 	Tail lamp circuit Refer to EXL-93 .	
<ul style="list-style-type: none"> • Parking lamp, tail lamp and license plate lamp are not turned ON. • Parking lamp, tail lamp and license plate lamp are not turned OFF. (Each illumination is turned ON/OFF.)	Symptom diagnosis "PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-104 .		
Turn signal lamp does not blink.	Indicator lamp is normal. (The applicable side performs the high flasher activation.)	<ul style="list-style-type: none"> • Harness between BCM and each turn signal lamp • Turn signal lamp bulb 	Turn signal lamp circuit Refer to EXL-85 .
	Indicator lamp is included	<ul style="list-style-type: none"> • Combination switch • Harness between the combination switch and BCM • BCM 	Combination switch Refer to BCS-102 .
Turn signal indicator lamp does not blink. (The turn signal indicator lamp is normal.)	One side	Combination meter	—
	Both sides (Always)	<ul style="list-style-type: none"> • Turn signal indicator lamp signal - Combination meter - BCM • Combination meter 	<ul style="list-style-type: none"> • Combination meter • Data monitor "TURN IND" • BCM (FLASHER) • Active test "FLASHER"
	Both sides (Only when activating the hazard warning lamp with the ignition switch OFF)	<ul style="list-style-type: none"> • Combination meter power supply and the ground circuit • Combination meter 	Combination meter Power supply and the ground circuit Refer to MWI-45 .
<ul style="list-style-type: none"> • Hazard warning lamp does not activate. • Hazard warning lamp continues activating. (Turn signal is normal.)	<ul style="list-style-type: none"> • Hazard switch • Harness between the hazard switch and BCM • BCM 	Hazard switch Refer to EXL-91 .	

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EXL

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

Symptom		Possible cause	Inspection item
Rear fog lamp is not turned ON.	Rear fog lamp indicator lamp is normal.	<ul style="list-style-type: none">• Harness between BCM and rear fog lamp• Rear fog lamp bulb• BCM	Rear fog lamp circuit Refer to EXL-96 .
	Rear fog lamp indicator lamp is included.	<ul style="list-style-type: none">• 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

INFOID:000000009362944

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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EXL

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description

INFOID:000000009362945

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

Diagnosis Procedure

INFOID:000000009362946

1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-102, "Symptom Table"](#).

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

ⓐCONSULT DATA MONITOR

1. Select "HL HI REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

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

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM.

3.HEADLAMP (HI) CIRCUIT INSPECTION

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

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description

INFOID:000000009362947

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

Diagnosis Procedure

INFOID:000000009362948

1. CHECK COMBINATION SWITCH

Check the combination switch. Refer to [BCS-102. "Symptom Table"](#).

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2. CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

 CONSULT DATA MONITOR

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

2. With operating the lighting switch, check the monitor status.

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

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM.

3. HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to [EXL-77. "Description"](#).

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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EXL

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:000000009362949

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

Diagnosis Procedure

INFOID:000000009362950

1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-102, "Symptom Table"](#).

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

ⓈCONSULT DATA MONITOR

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

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

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM.

3.TAIL LAMP CIRCUIT INSPECTION

Check the tail lamp circuit. Refer to [EXL-93, "Component Function Check"](#).

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Description

INFOID:000000009362951

PREPARATION BEFORE ADJUSTING

NOTE:

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

Before performing aiming adjustment, check the following.

- Adjust the tire pressure to the specification.
- Fill with fuel, engine coolant and each oil.
- Maintain the unloaded vehicle condition. (Remove luggage from the passenger compartment and the luggage room.)

NOTE:

Do not remove the temporary tire, jack and on-vehicle tool.

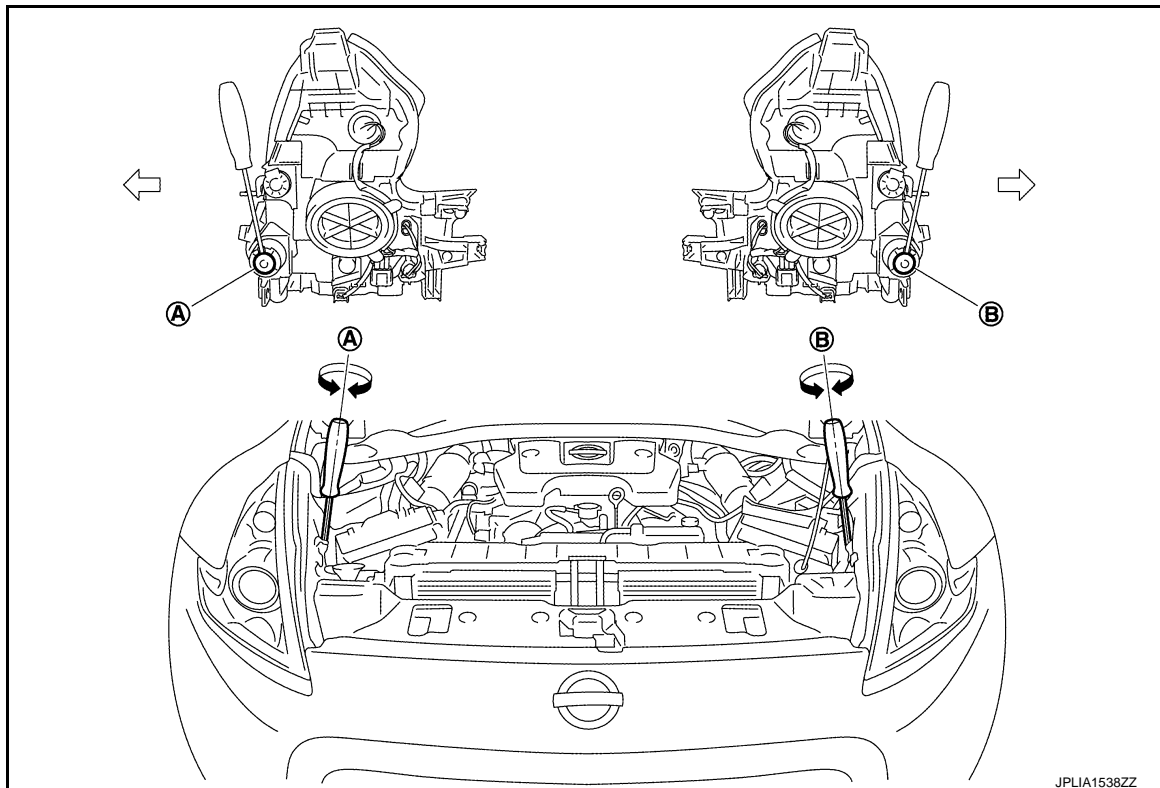
- Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

- Ride alone on the driver seat.

AIMING ADJUSTMENT SCREW



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

↔: Vehicle center

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

HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

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

Aiming Adjustment Procedure

INFOID:000000009362952

- Place the screen.

NOTE:

- Stop the vehicle facing the wall.
- Place the board on a plain road vertically.

- Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the headlamp center and the screen.

- Start the engine. Turn the headlamp (LO) ON.

NOTE:

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

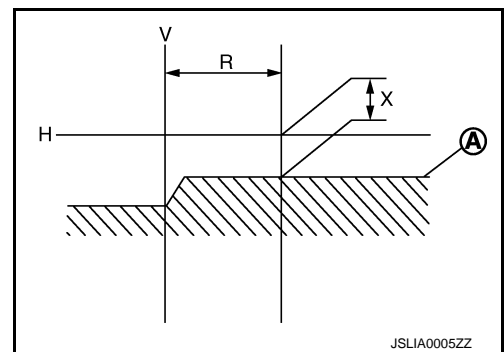
CAUTION:

Never cover the lens surface with a tape etc. The lens is made of resin.

- Measure the distance (X) between the horizontal center line of headlamp (H) and the cutoff line (A) within the light axis measurement range (R) from the vertical center line ahead of headlamp (V).

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

Low beam distribution on the screen



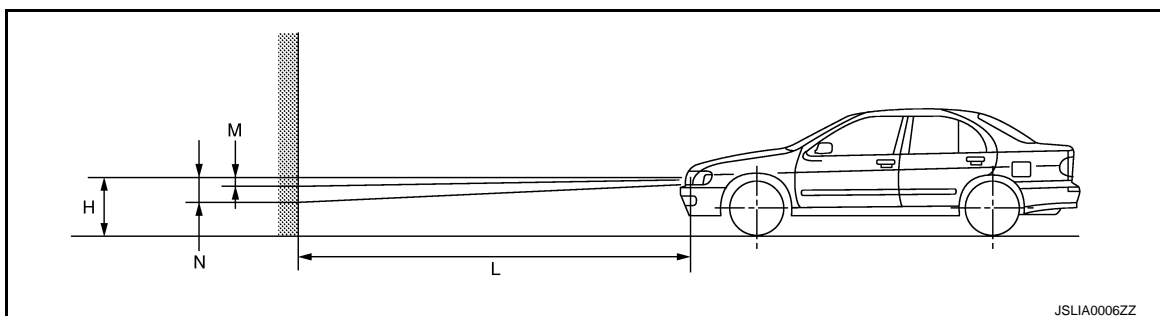
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- Adjust the cutoff line height with the aiming adjustment screw so as to enter in the adjustment range (M–N) according to the horizontal center line of headlamp (H).

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



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

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

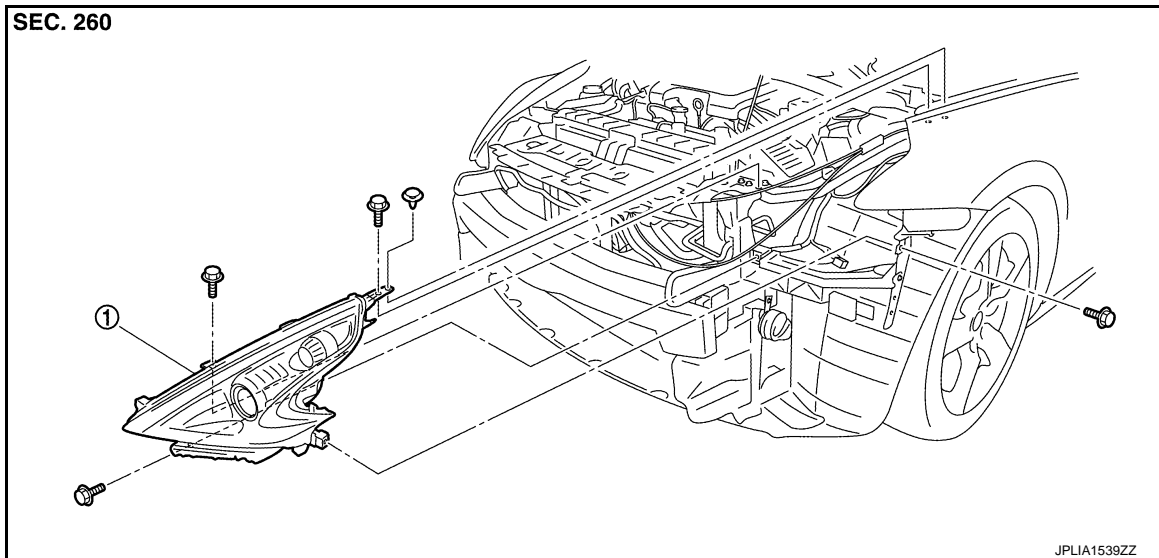
REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View

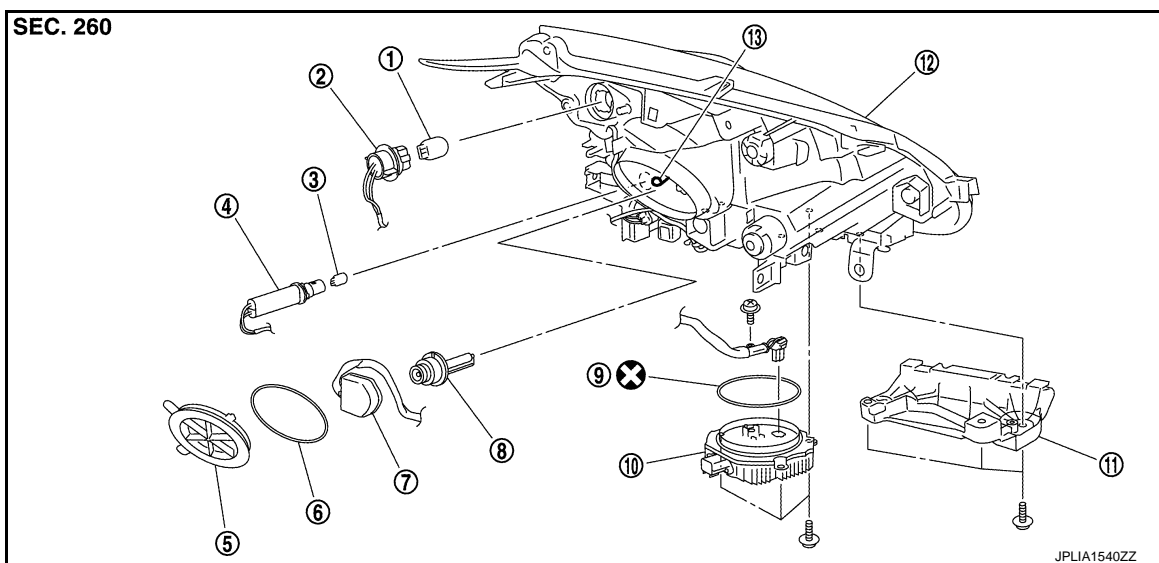
INFOID:000000009362953

REMOVAL



1. Front combination lamp

DISASSEMBLY



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

Refer to [GI-4, "Components"](#) for symbols in the figure.

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

Removal and Installation

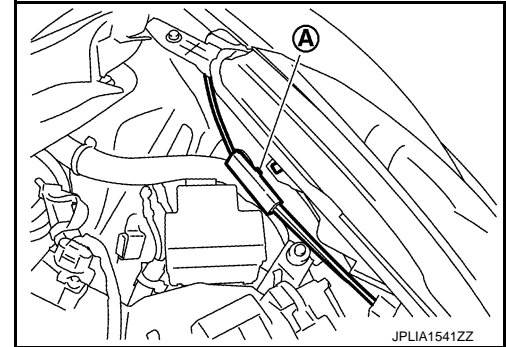
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CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Remove the front bumper fascia. Refer to [EXT-13, "Exploded View"](#).
2. Remove the headlamp mounting bolts and clip.
3. Remove the holding clip (A)* and harness clip.
*: Left side only
4. Pull out the headlamp assembly forward the vehicle.
5. Disconnect the connector before removing the headlamp housing assembly.



INSTALLATION

Install in the reverse order of removal.

NOTE:

- After installation, perform aiming adjustment. Refer to [EXL-105, "Description"](#).
- After installation, check that headlamp lighting. Refer to [EXL-109, "Inspection After Installation \(HID Control Unit\)"](#).

Replacement

INFOID:000000009362955

CAUTION:

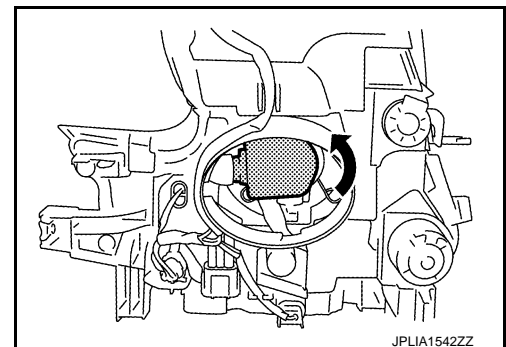
- Disconnect the battery negative terminal or remove the fuse.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

HEADLAMP BULB

1. Remove the fender protector. Keep a service area. Refer to [EXT-25, "FENDER PROTECTOR : Exploded View"](#).
2. Rotate the resin cap counterclockwise and unlock it.
3. Rotate the bulb socket counterclockwise and unlock it.
4. Remove the retaining spring lock. Remove the bulb from the headlamp housing assembly.

CAUTION:

Never break the xenon bulb ceramic tube when replacing the bulb.



PARKING LAMP BULB

1. Remove the fender protector. Keep a service area. Refer to [EXT-25, "FENDER PROTECTOR : Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

FRONT COMBINATION LAMP

[XENON TYPE]

< REMOVAL AND INSTALLATION >

FRONT TURN SIGNAL LAMP BULB

1. Remove the fender protector. Keep a service area. Refer to [EXT-25, "FENDER PROTECTOR : Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

SIDE MARKER LAMP

Replacement integral with front combination lamp. Refer to [EXL-107, "Exploded View"](#).

Disassembly and Assembly

INFOID:000000009362956

DISASSEMBLY

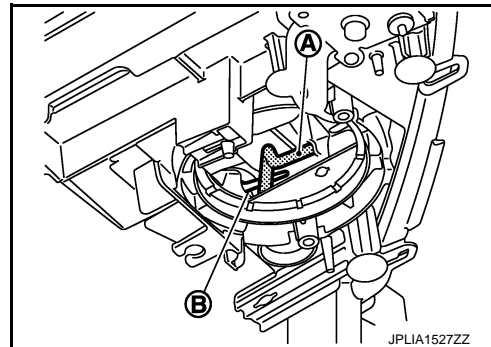
1. Rotate the resin cap counterclockwise and unlock it.
2. Rotate the xenon bulb socket counterclockwise and unlock it.
3. Remove the retaining spring lock. Remove the xenon bulb.
4. Remove the bumper bracket.
5. Remove the HID control unit installation screw.
6. Remove the screw. Disconnect the connector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

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

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



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

Inspection After Installation (HID Control Unit)

INFOID:000000009362957

CAUTION:

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

XENON HEADLAMP LIGHTING CHECK

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

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

FRONT COMBINATION LAMP

[XENON TYPE]

< REMOVAL AND INSTALLATION >

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

DAYTIME RUNNING LIGHT

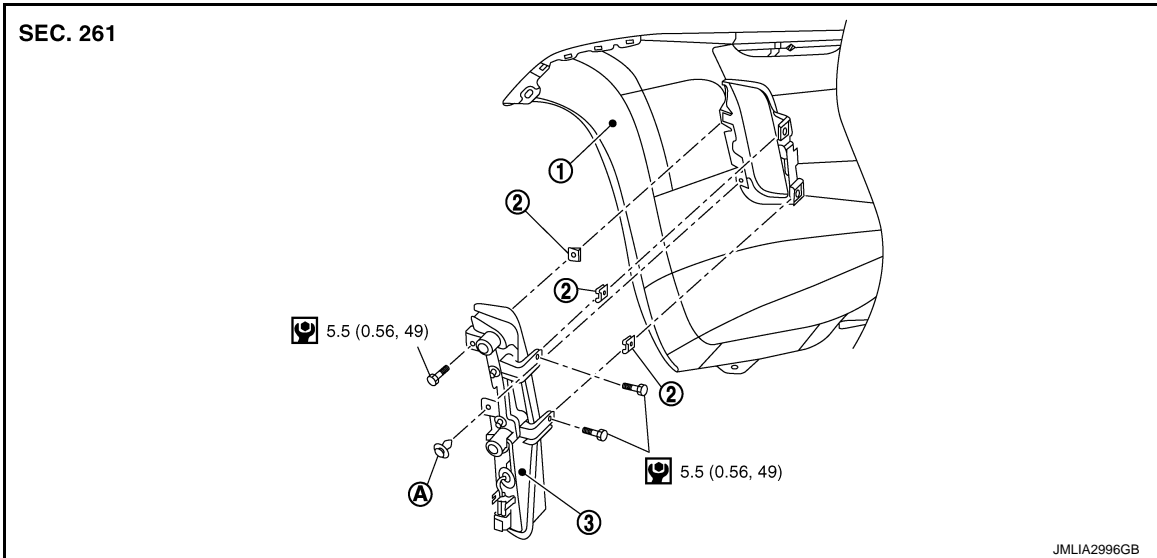
< REMOVAL AND INSTALLATION >


[XENON TYPE]

DAYTIME RUNNING LIGHT

Exploded View

INFOID:000000009362958



- 1. Bumper fascia
 - 2. U nut
 - 3. Daytime running lamp assembly
 - A Clip
-  N·m (kg·m, in·lb)

Removal and Installation

INFOID:000000009362959

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

REMOVAL

1. Remove bumper fascia. Refer to [EXT-14, "Removal and Installation"](#).
2. Remove daytime running lamp assembly mounting bolts and clip.
3. Remove daytime running lamp assembly from bumper fascia.

INSTALLATION

Install in the reverse order of removal.

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OPTICAL SENSOR

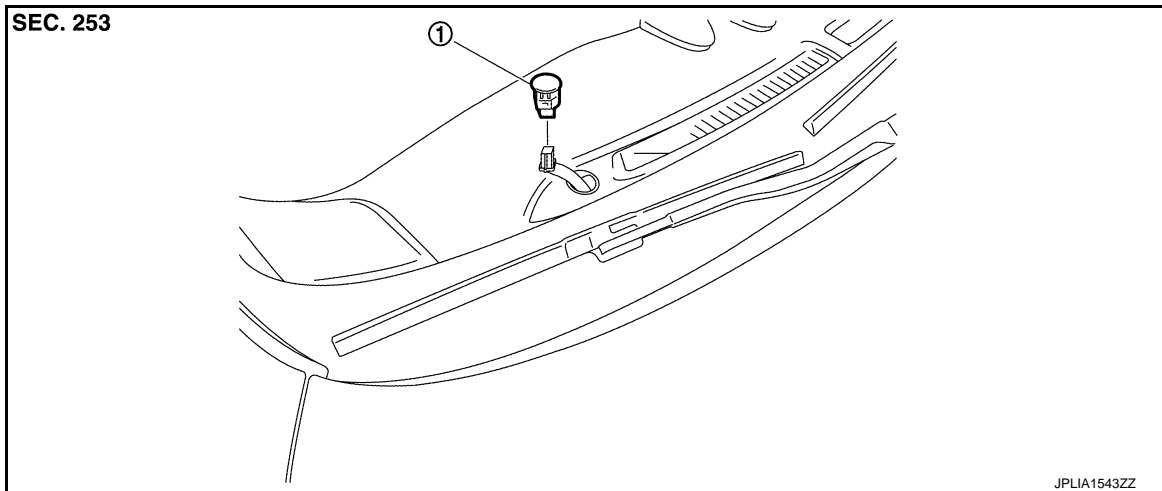
< REMOVAL AND INSTALLATION >

[XENON TYPE]

OPTICAL SENSOR

Exploded View

INFOID:000000009362960



1. Optical sensor

Removal and Installation

INFOID:000000009362961

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

LIGHTING & TURN SIGNAL SWITCH

< REMOVAL AND INSTALLATION >

[XENON TYPE]

LIGHTING & TURN SIGNAL SWITCH

Exploded View

INFOID:000000009362962

The lighting & turn switch is integrated in the combination switch. Refer to [BCS-107. "Exploded View"](#).

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HAZARD SWITCH

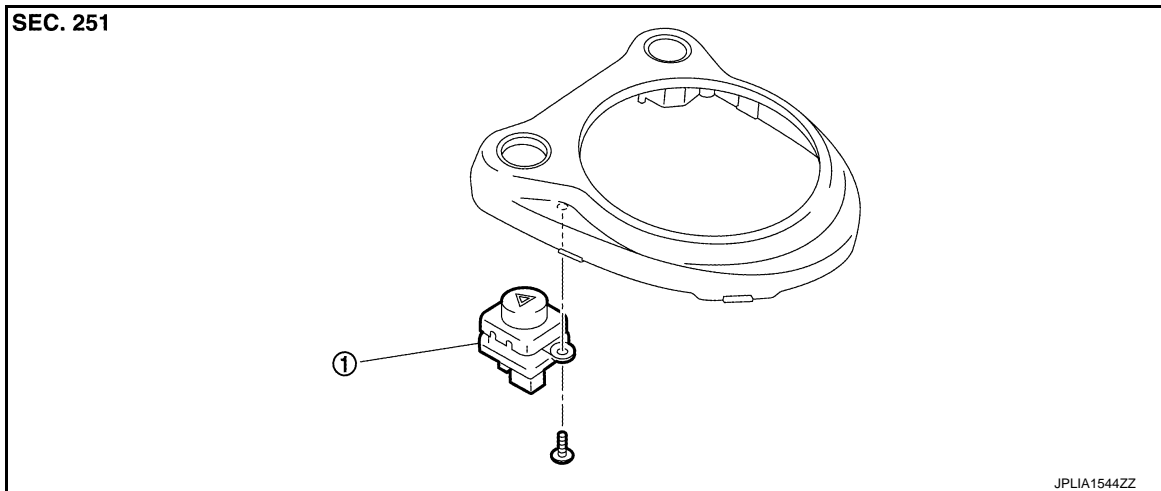
< REMOVAL AND INSTALLATION >

[XENON TYPE]

HAZARD SWITCH

Exploded View

INFOID:000000009362963



1. Hazard switch

Removal and Installation

INFOID:000000009362964

REMOVAL

1. Remove the console finisher. Refer to [IP-25. "Exploded View"](#).
2. Remove the hazard switch from the console finisher.

INSTALLATION

Install in the reverse order of removal.

SIDE TURN SIGNAL LAMP

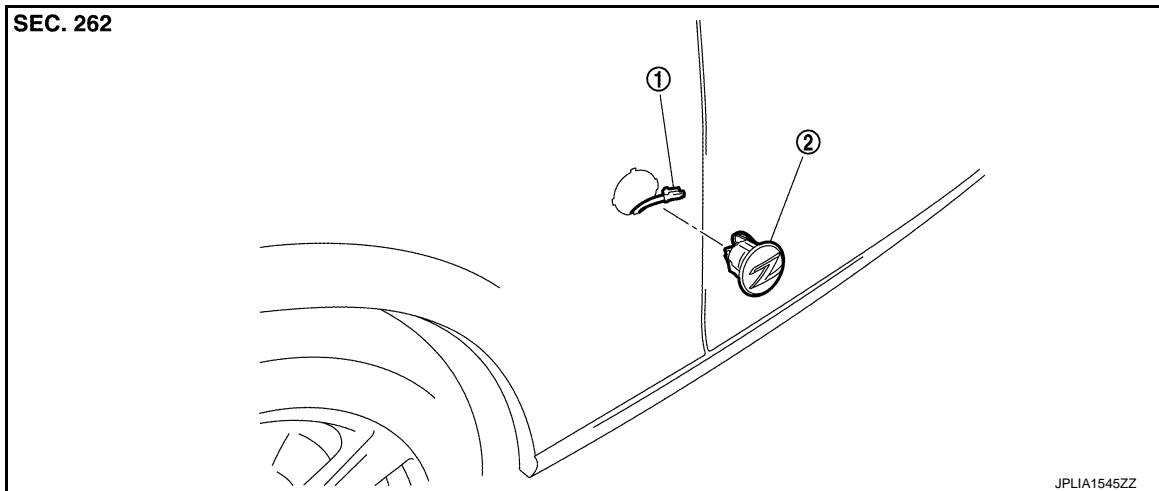
< REMOVAL AND INSTALLATION >

[XENON TYPE]

SIDE TURN SIGNAL LAMP

Exploded View

INFOID:000000009362965



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

Removal and Installation

INFOID:000000009362966

CAUTION:
Disconnect battery negative terminal or remove the fuse.

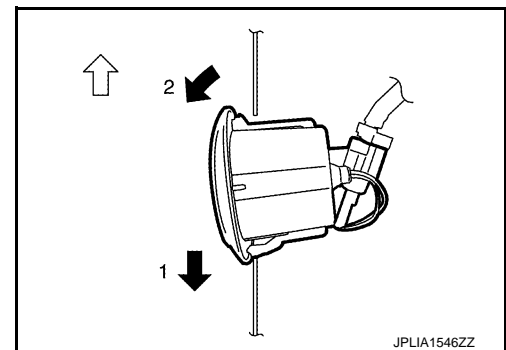
REMOVAL

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

↔ : Vehicle front

2. Disconnect the side turn signal lamp connector.

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



INSTALLATION

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

Replacement

INFOID:000000009362967

SIDE TURN SIGNAL LAMP BULB

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

REAR COMBINATION LAMP

< REMOVAL AND INSTALLATION >

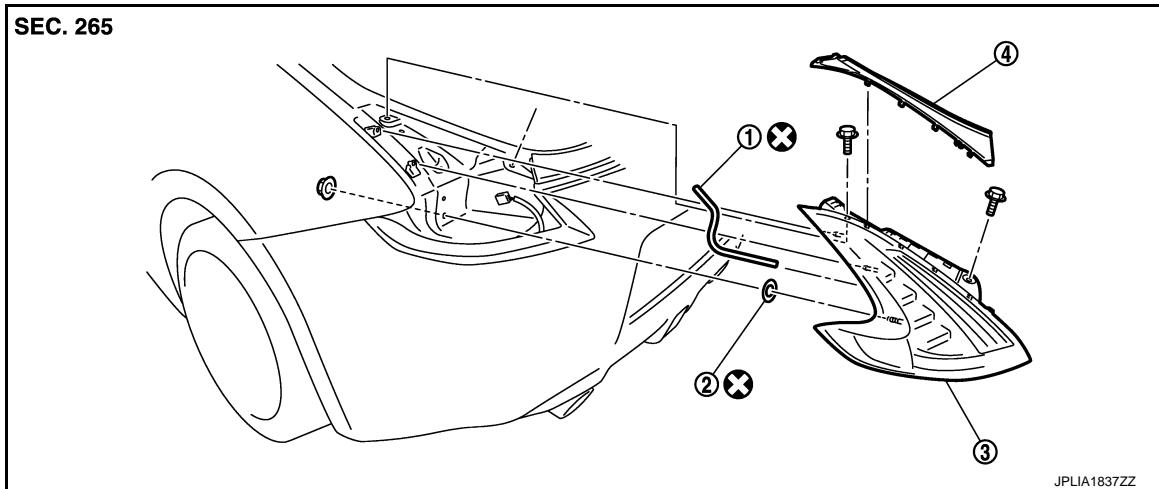
[XENON TYPE]

REAR COMBINATION LAMP

Exploded View

INFOID:000000009362968

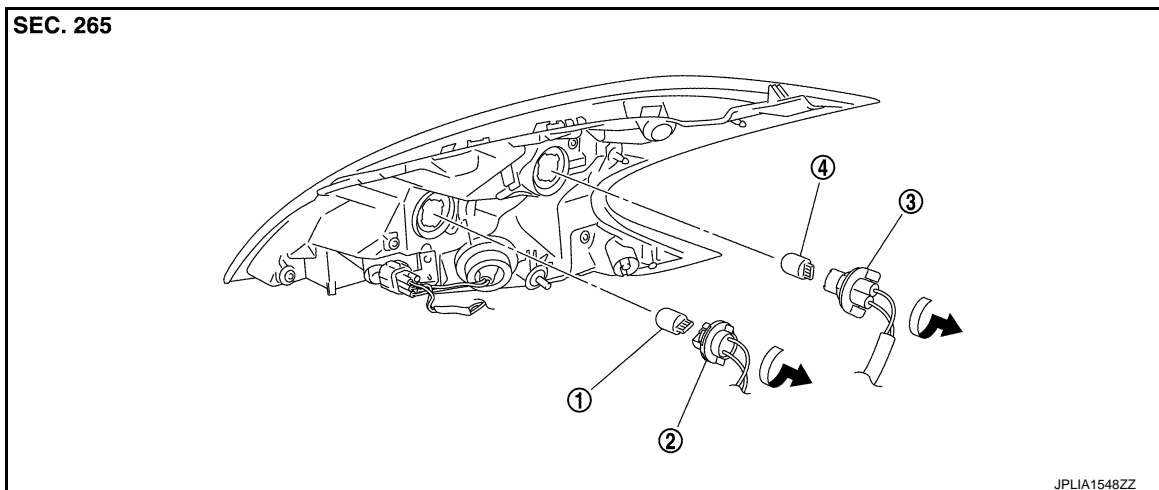
REMOVAL



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

Refer to [GI-4. "Components"](#) for symbols in the figure.

DISASSEMBLY



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

Removal and Installation

INFOID:000000009362969

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

REMOVAL

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

REAR COMBINATION LAMP

[XENON TYPE]

< REMOVAL AND INSTALLATION >

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

INSTALLATION

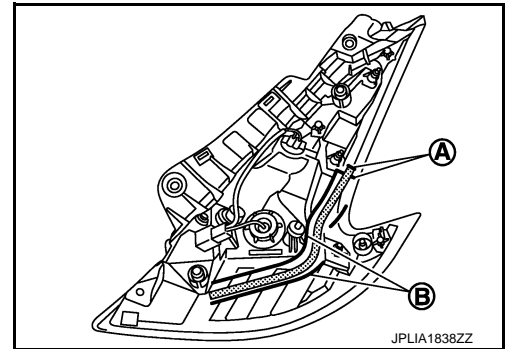
Install in the reverse order of removal.

CAUTION:

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

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.



INFOID:000000009362970

Replacement

CAUTION:

- **Disconnect the battery negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.**
- **Never touch bulb by hand while it is lit or right after being turned off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

REAR TURN SIGNAL LAMP BULB

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

BACK-UP LAMP BULB

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

STOP/TAIL LAMP

Replacement integral with rear combination lamp. Refer to [EXL-116. "Exploded View"](#).

REAR SIDE MARKER LAMP

Replacement integral with rear combination lamp. Refer to [EXL-116. "Exploded View"](#).

LICENSE PLATE LAMP

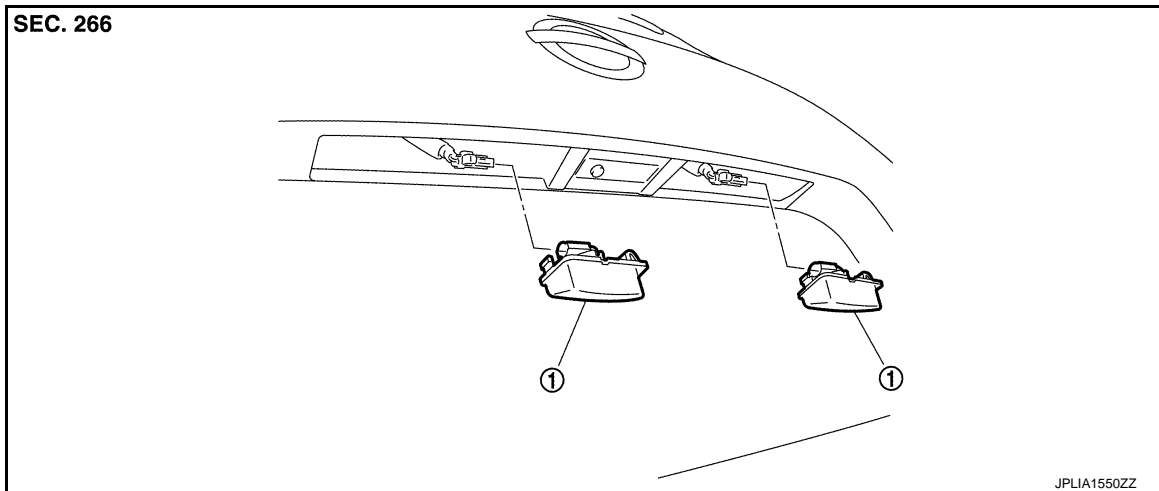
< REMOVAL AND INSTALLATION >

[XENON TYPE]

LICENSE PLATE LAMP

Exploded View

INFOID:000000009362973



1. License plate lamp

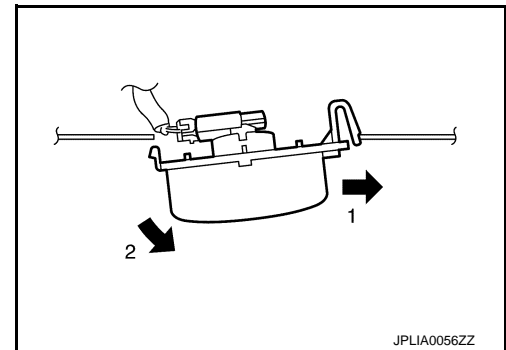
Removal and Installation

INFOID:000000009362974

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

REMOVAL

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



INSTALLATION

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

Replacement

INFOID:000000009362975

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

LICENSE PLATE LAMP BULB

1. Remove the license plate lamp.

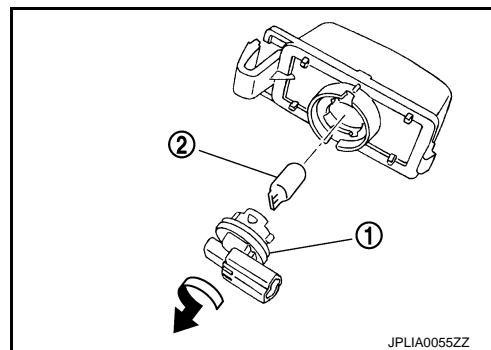
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LICENSE PLATE LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

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



REAR FOG LAMP

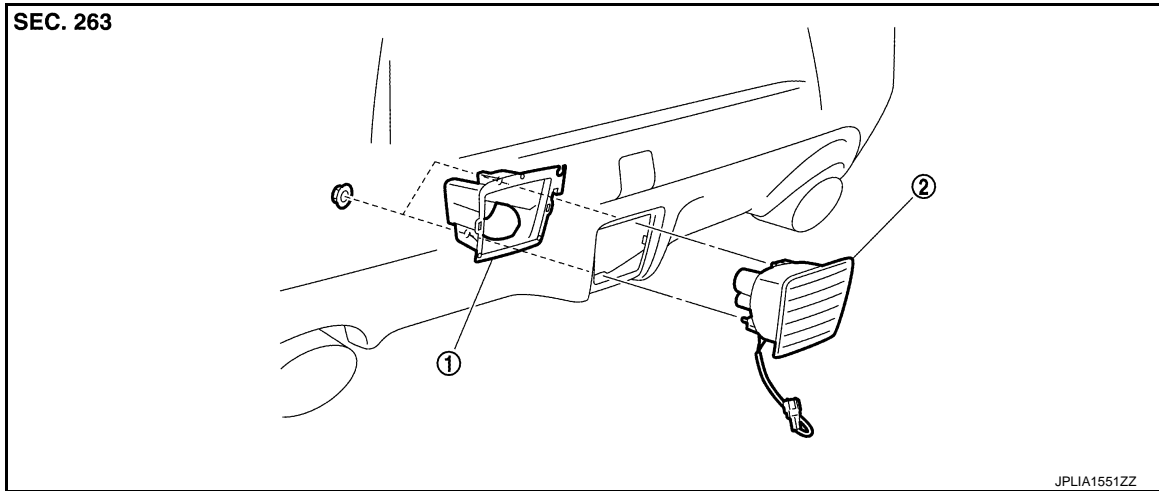
< REMOVAL AND INSTALLATION >

[XENON TYPE]

REAR FOG LAMP

Exploded View

INFOID:000000009362976



1. Rear fog lamp bracket
2. Rear fog lamp

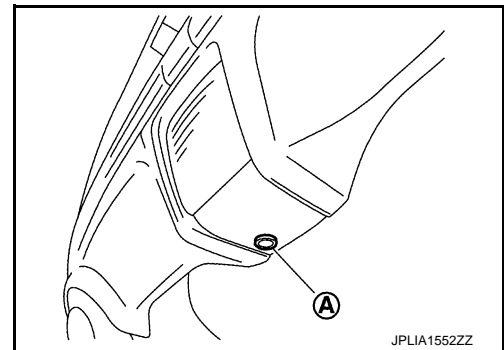
Removal and Installation

INFOID:000000009362977

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:000000009362978

- 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.

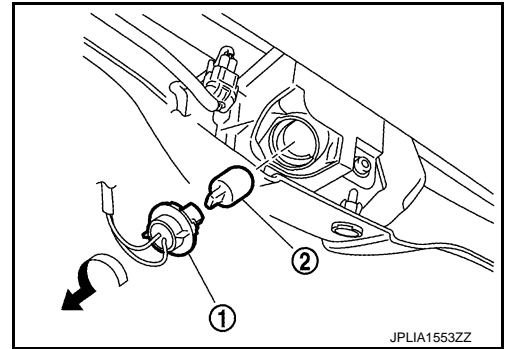
REAR FOG LAMP BULB

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.



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:000000009362979

Item	Type	Wattage (W)	
Front combination lamp	Headlamp (HI/LO)	D2S (Xenon)	35
	Front turn signal lamp	7444NA (Amber)	28/8
	Parking lamp	W5W	5
	Front side marker lamp	LED	—
Side turn signal lamp	LED	—	
Daytime running lamp	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	

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EXL