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SECTION EXL

EXTERIOR LIGHTING SYSTEM

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

INFOID:000000005841405

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:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Service Procedure Precautions for Models with a Pop-up Roll Bar

INFOID:000000005841406

WARNING:

- Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

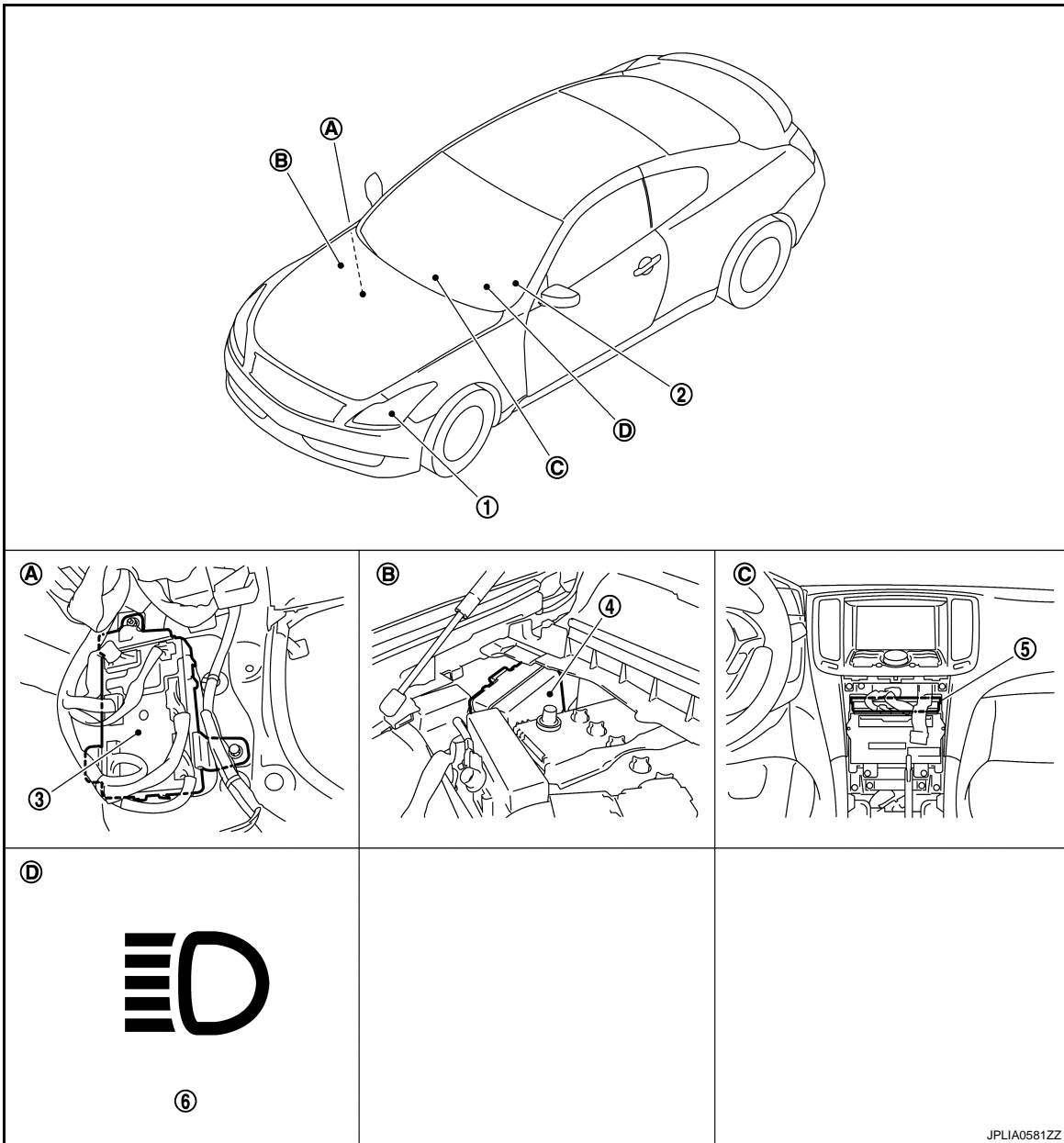
SYSTEM DESCRIPTION

COMPONENT PARTS

HEADLAMP SYSTEM

HEADLAMP SYSTEM : Component Parts Location

INFOID:000000005631769



- | | | |
|-------------------------------------|--------------------------------|-----------------------------|
| 1. Headlamp | 2. Combination switch | 3. BCM |
| 4. IPDM E/R | 5. Unified meter and A/C amp. | 6. High beam indicator lamp |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the cluster lid C |
| D. On the combination meter | | |

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

HEADLAMP SYSTEM : Component Description

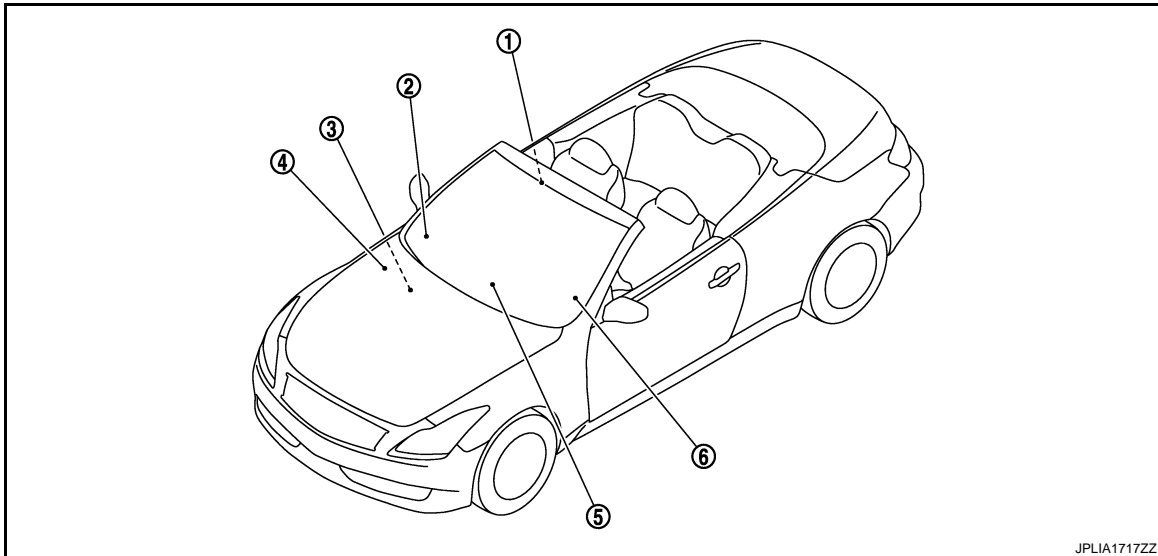
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Part	Description
BCM	<ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges that the headlamp is turned ON according to the vehicle condition. - Requests the headlamp relay (HI/LO) ON to IPDM E/R (with CAN communication). - Requests the high beam indicator lamp ON to the combination meter [with CAN communication (through unified meter and A/C amp.)].
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-6, "System Diagram" .
Combination meter (High beam indicator lamp)	Turns the high beam indicator lamp ON according to the request from BCM [(with CAN communication (through unified meter and A/C amp.)].
Headlamp assembly	<ul style="list-style-type: none"> • HID control unit • Xenon bulb
	High beam solenoid
	Refer to EXL-78, "Description" .

AUTO LIGHT SYSTEM

AUTO LIGHT SYSTEM : Component Parts Location

INFOID:000000005631773



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- | | | |
|---|---|--|
| 1. Door switch | 2. Optical sensor | 3. BCM
Refer to BCS-5, "Component Parts Location" . |
| 4. IPDM E/R
Refer to PCS-4, "Component Parts Location" . | 5. Unified meter and A/C amp.
Refer to HAC-26, "Component Part Location" . | 6. Combination switch |

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

AUTO LIGHT SYSTEM : Component Description

INFOID:000000005631774

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-6, "System Diagram" .
Optical sensor	Refer to EXL-91, "Description" .

DAYTIME RUNNING LIGHT SYSTEM

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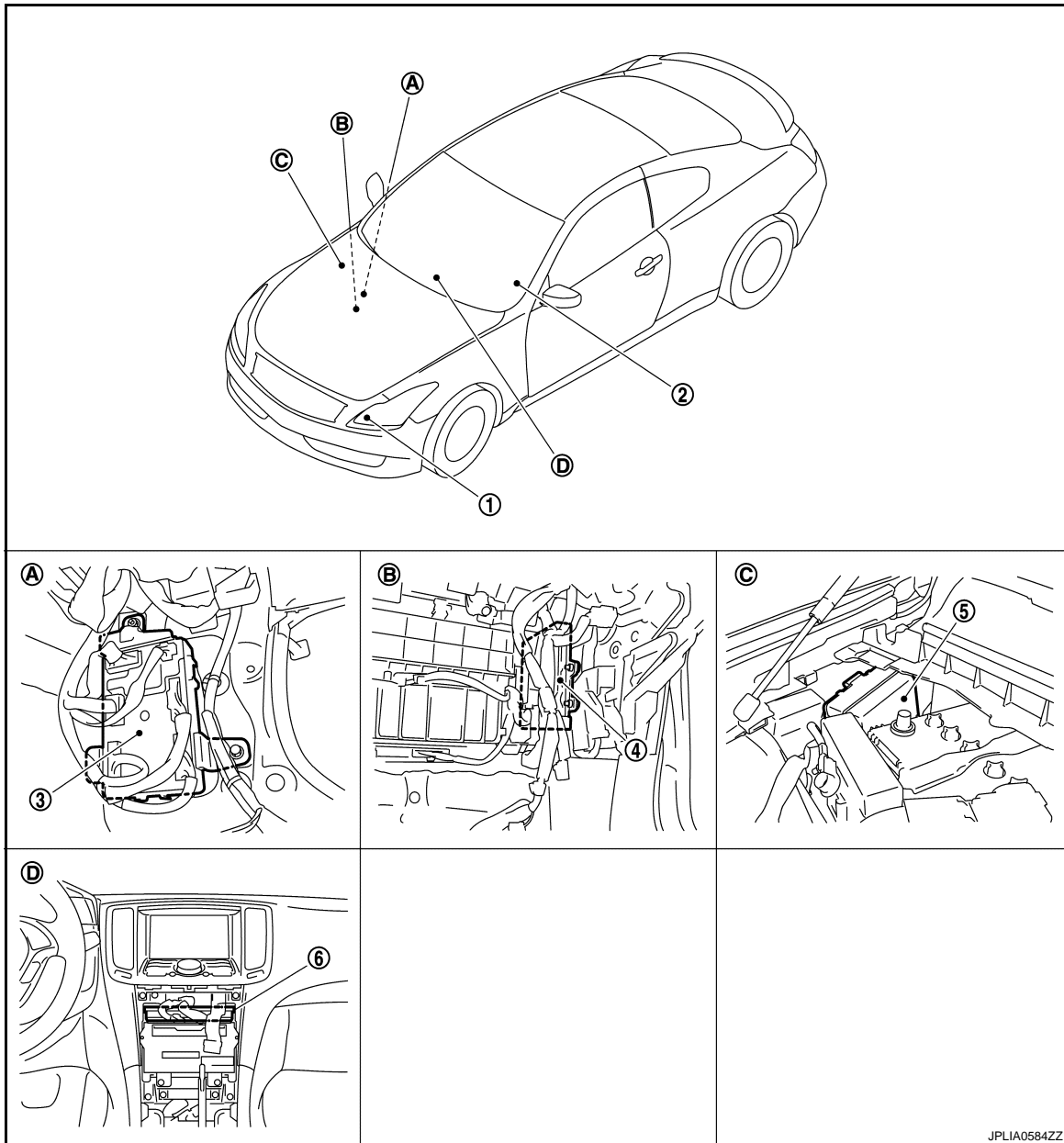
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM : Component Parts Location

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|--|-------------------------|--------------------------------|
| 1. Daytime running light
(Front fog lamp) | 2. Combination switch | 3. BCM |
| 4. ECM | 5. IPDM E/R | 6. Unified meter and A/C amp. |
| A. Dash side lower (passenger side) | B. Behind the glove box | C. Engine room dash panel (RH) |
| D. Behind the cluster lid C | | |

DAYTIME RUNNING LIGHT SYSTEM : Component Description

INFOID:000000005631778

Part	Description
BCM	<ul style="list-style-type: none"> • Detects each switch condition with the combination switch reading function. • Judges the headlamp ON/OFF status according to the vehicle condition. Requests the front fog lamp 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).

COMPONENT PARTS

< SYSTEM DESCRIPTION >

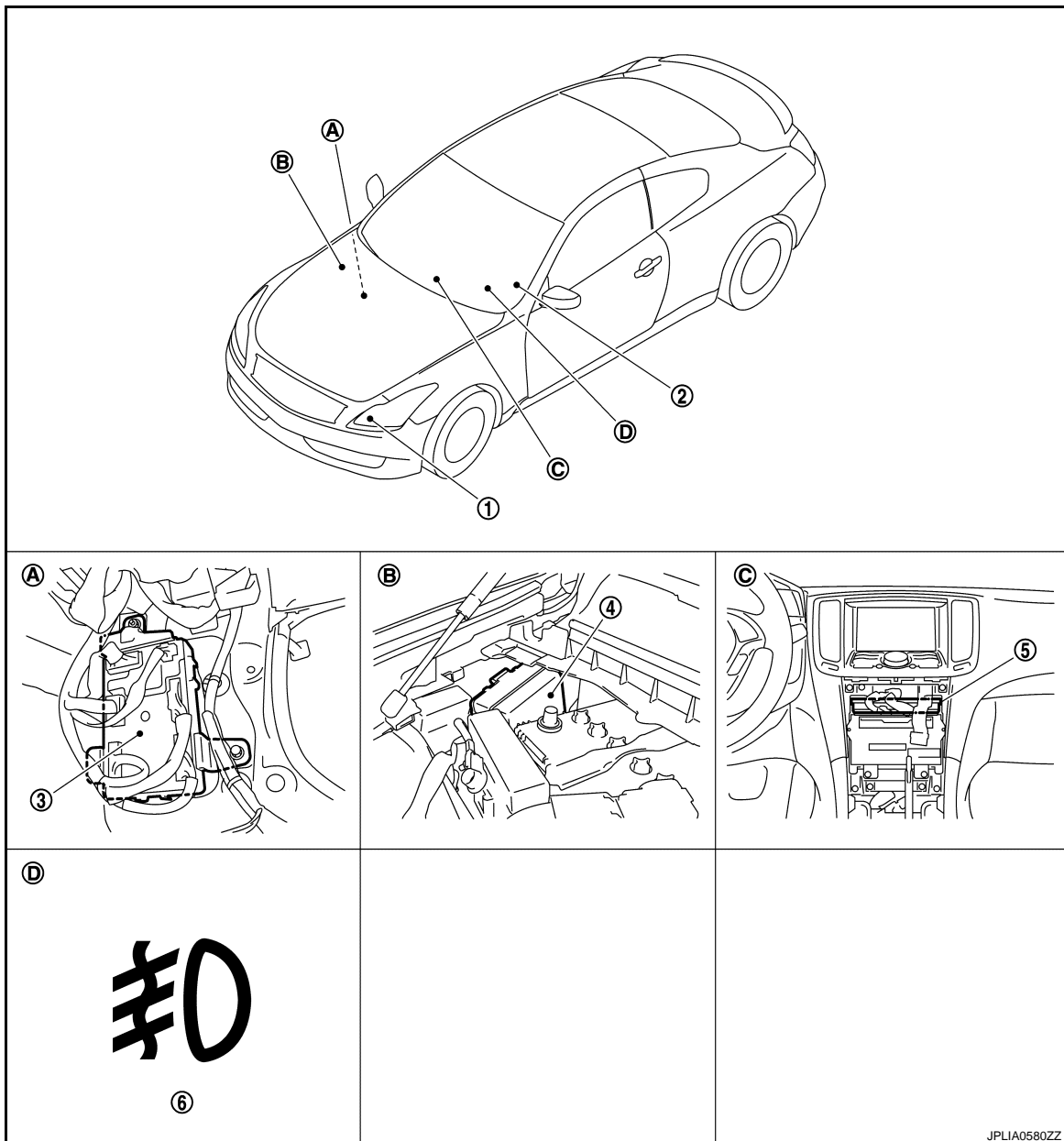
[XENON TYPE]

Part	Description
Combination switch (Lighting & turn signal switch)	Refer to BCS-6, "System Diagram" .
ECM	Transmits the engine status signal to BCM with CAN communication.
Unified meter and A/C amp.	Transmits the parking brake switch signal to BCM with CAN communication.

FRONT FOG LAMP SYSTEM

FRONT FOG LAMP SYSTEM : Component Parts Location

INFOID:000000005807886



- | | | |
|-------------------------------------|--------------------------------|----------------------------------|
| 1. Front fog lamp | 2. Combination switch | 3. BCM |
| 4. IPDM E/R | 5. Unified meter and A/C amp. | 6. Front fog lamp indicator lamp |
| A. Dash side lower (Passenger side) | B. Engine room dash panel (RH) | C. Behind the cluster lid C |
| D. On the combination meter | | |

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

FRONT FOG LAMP SYSTEM : Component Description

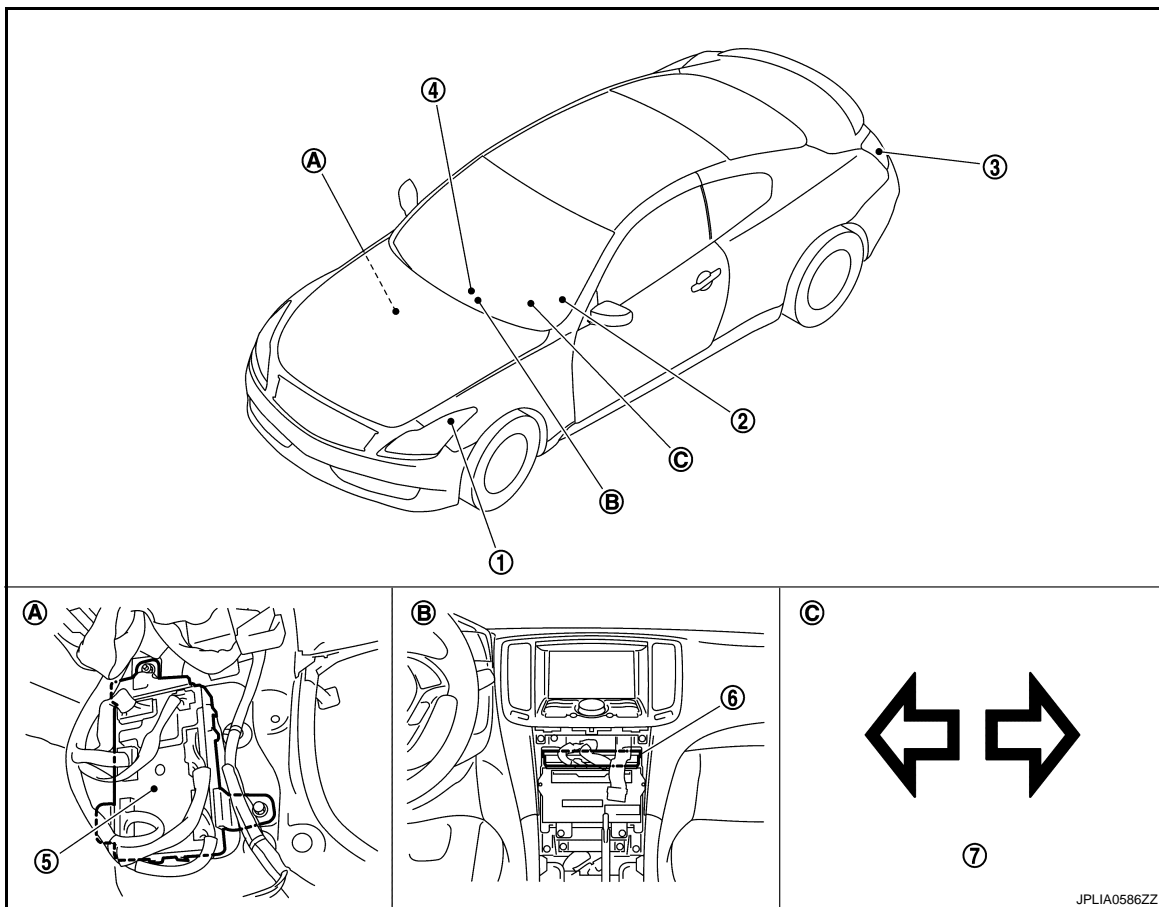
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Part	Description
BCM	<ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges the front fog lamp ON/OFF status according to the vehicle condition. - Requests the front fog lamp relay ON to IPDM E/R (with CAN communication). - Requests the front fog lamp indicator lamp ON to the combination meter [with CAN communication (through unified meter and A/C amp.)].
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-6, "System Diagram" .
Combination meter (Front fog lamp indicator lamp)	Turns the front fog lamp indicator lamp ON according to the request from BCM [with CAN communication (through unified meter and A/C amp.)].

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : Component Parts Location

INFOID:000000005631789



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- | | | |
|-------------------------------------|-----------------------------|-------------------------------|
| 1. Front turn signal lamp | 2. Combination switch | 3. Rear turn signal lamp |
| 4. Hazard warning switch | 5. BCM | 6. Unified meter and A/C amp. |
| 7. Turn signal indicator lamp | | |
| A. Dash side lower (passenger side) | B. Behind the cluster lid C | C. On the combination meter |

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : Component Description

INFOID:000000005631790

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-6, "System Diagram" .
Hazard switch	Refer to EXL-94, "Description" .
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 (through unified meter and A/C amp.)].

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM

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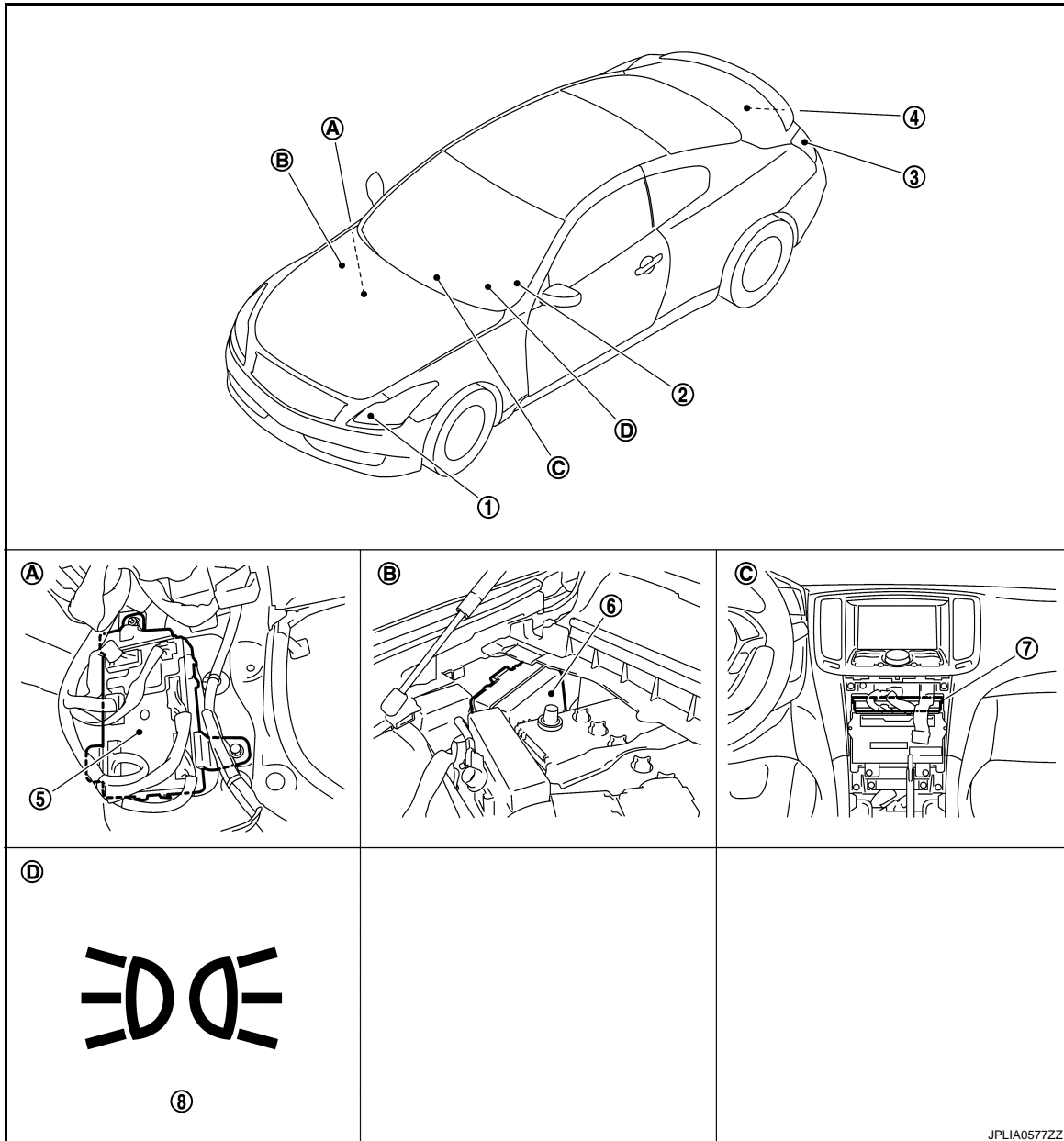
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : Component Parts Location

INFOID:000000005631793



- | | | |
|---|--------------------------------|---|
| 1. • Parking lamp
• Front side marker lamp | 2. Combination switch | 3. • Tail lamp
• Rear side marker lamp |
| 4. License plate lamp | 5. BCM | 6. IPDM E/R |
| 7. Unified meter and A/C amp. | 8. Tail lamp indicator lamp | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the cluster lid C |
| D. On the combination meter | | |

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : Component Description

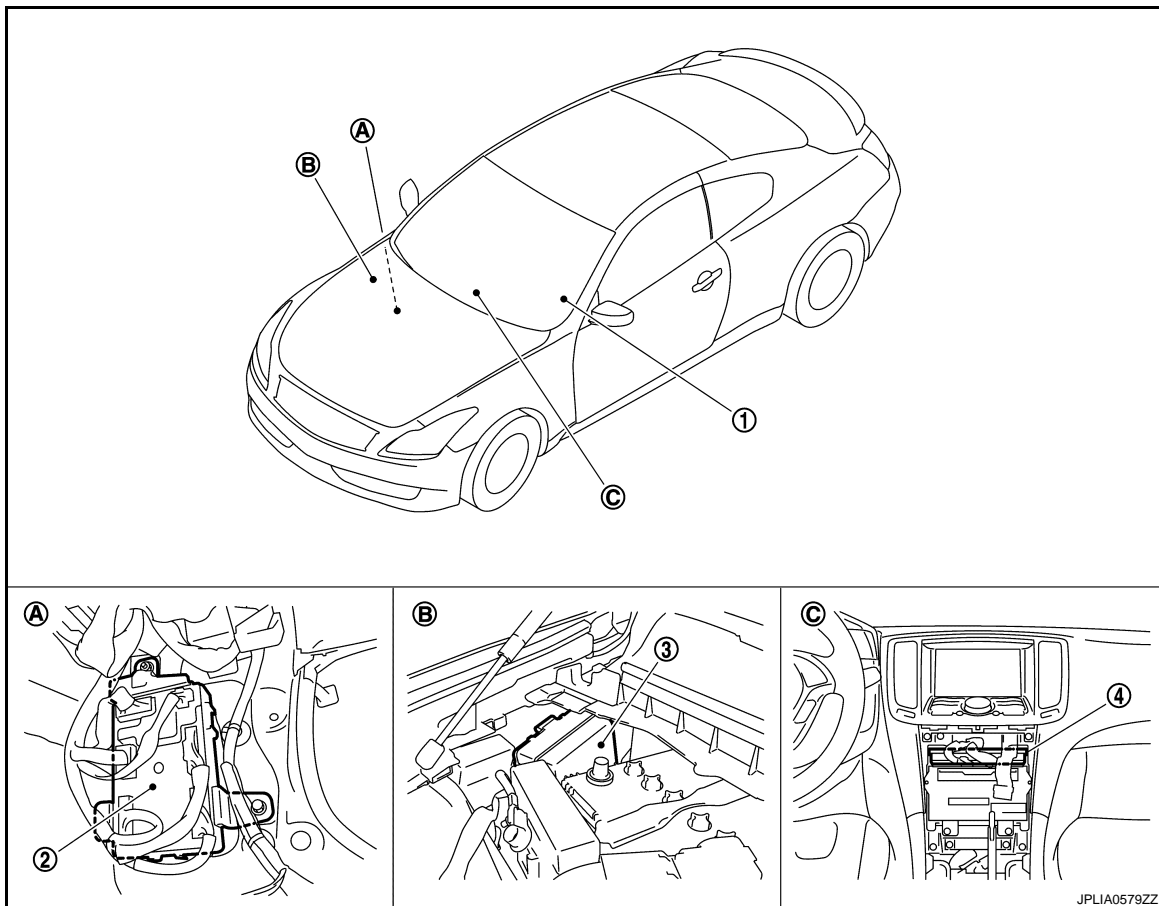
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Part	Description
BCM	<ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges the ON/OFF status of the parking, license plate, tail and side marker lamps according to the vehicle condition. - 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-6, "System Diagram" .
Combination meter (Tail lamp indicator lamp)	Turns the tail lamp indicator lamp ON according to the request from BCM [with CAN communication (through unified meter and A/C amp.)].

EXTERIOR LAMP BATTERY SAVER SYSTEM

EXTERIOR LAMP BATTERY SAVER SYSTEM : Component Parts Location

INFOID:000000005631797



- | | | |
|-------------------------------------|--------------------------------|-----------------------------|
| 1. Combination switch | 2. BCM | 3. IPDM E/R |
| 4. Unified meter and A/C amp. | | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the cluster lid C |

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[XENON TYPE]

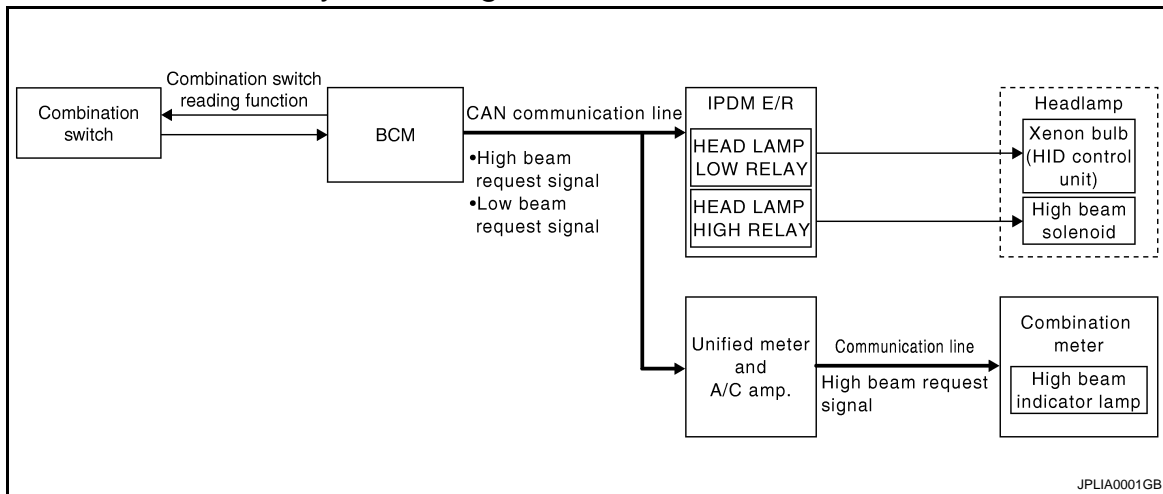
EXTERIOR LAMP BATTERY SAVER SYSTEM : Component Description INFOID:000000005631798

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).
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-6. "System Diagram" .

SYSTEM

HEADLAMP SYSTEM

HEADLAMP SYSTEM : System Diagram



HEADLAMP SYSTEM : System Description

INFOID:000000005631768

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 (through unified meter and A/C amp.) with CAN communication according to the high beam switching condition.

High beam switching condition

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

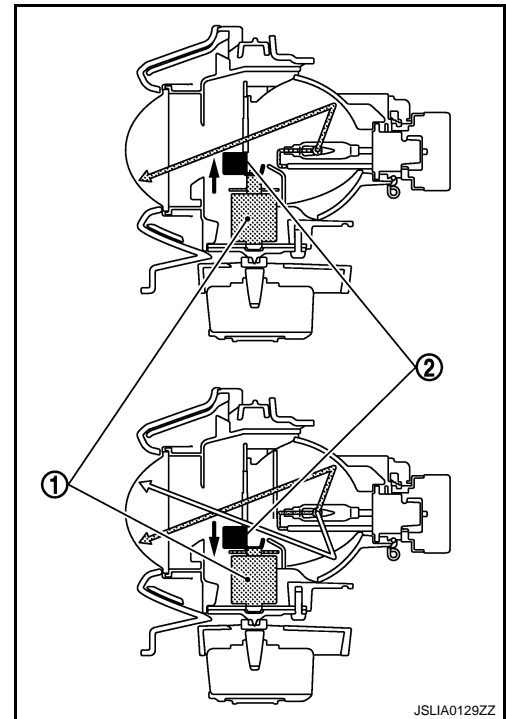
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< SYSTEM DESCRIPTION >

[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 (2) is switched to the high beam position.
- When the headlamp high relay is turned OFF, the current stops. The mobile valve shade returns to the low beam position automatically.



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HEADLAMP SYSTEM : Fail-safe

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CAN COMMUNICATION CONTROL

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

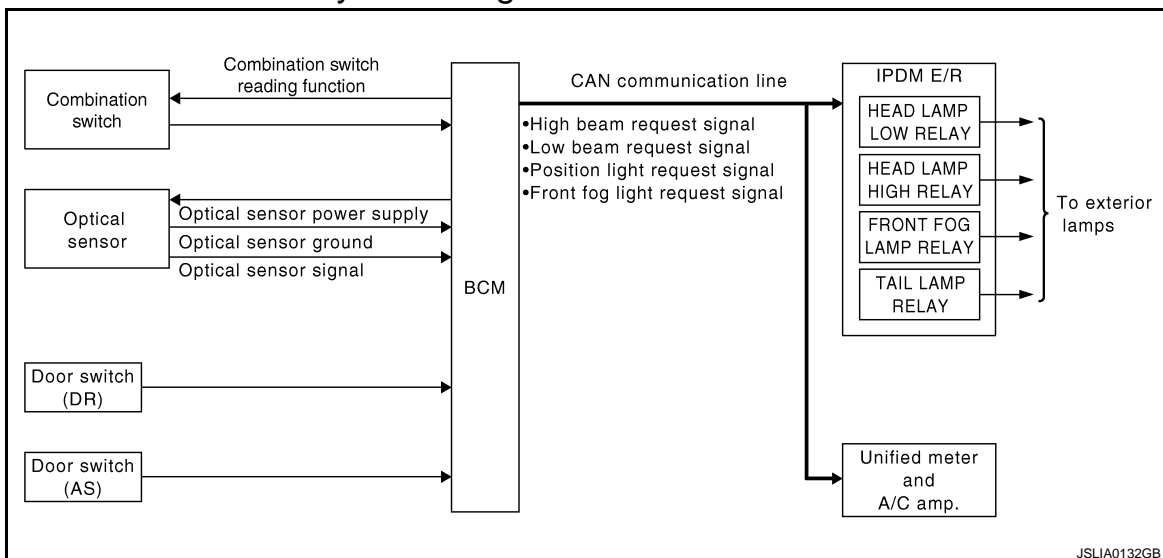
If No CAN Communication Is Available With BCM

Control part	Fail-safe operation
Headlamp	<ul style="list-style-type: none"> • Turns ON the headlamp low relay when the ignition switch is turned ON • Turns OFF the headlamp low relay when the ignition switch is turned OFF • Headlamp high relay OFF

AUTO LIGHT SYSTEM

AUTO LIGHT SYSTEM : System Diagram

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AUTO LIGHT SYSTEM : System Description

INFOID:000000005631772

OUTLINE

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

Control by BCM

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

Control by IPDM E/R

- Relay control function
- Auto light system has the auto light function and the delay timer function.
- Auto light function turns the exterior lamps* and each illumination ON/OFF automatically according to the outside brightness.
- When auto light system turns the exterior lamps ON with the ignition switch OFF, delay timer function turns the exterior lamps OFF depending on the vehicle condition with the auto light function after a certain period of time.

*: Headlamp (LO/HI), parking lamp, side marker lamp, tail lamp, and front fog lamp (Headlamp HI and front fog lamp depend on the combination switch condition.)

AUTO LIGHT FUNCTION

- BCM detects the combination switch condition with the combination switch reading function.
- BCM supplies voltage to optical sensor when the ignition switch is turned ON or ACC.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM judges outside brightness from the optical sensor signal and judges ON/OFF condition of the exterior lamp and each illumination according to the outside brightness.
- BCM transmits each request signal to IPDM E/R 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-III. Refer to [EXL-23. "HEADLAMP : CONSULT-III 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-III. Refer to [EXL-23. "HEADLAMP : CONSULT-III 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

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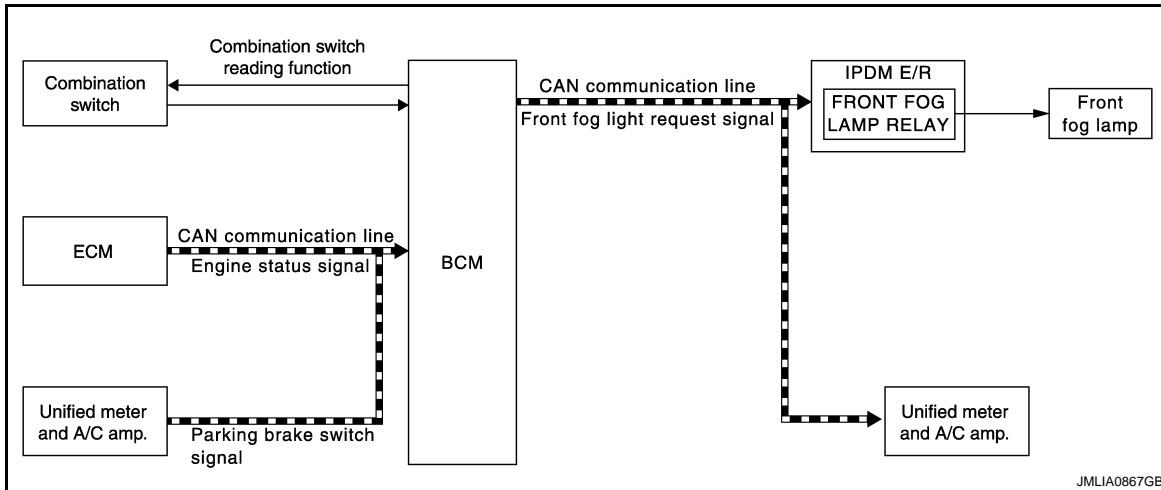
SYSTEM

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DAYTIME RUNNING LIGHT SYSTEM : System Diagram

INFOID:000000005631775



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DAYTIME RUNNING LIGHT SYSTEM : System Description

INFOID:000000005631776

OUTLINE

- Turns the front fog lamp ON as the 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 vehicle condition depending on the following signals.
 - Engine status signal (received from ECM with CAN communication)
 - Parking brake switch signal (received from unified meter and A/C amp. with CAN communication)
- BCM transmits the front fog light request signal to IPDM E/R with CAN communication according to the daytime running light ON condition.

Daytime running light ON condition

- While the engine running with the parking brake released

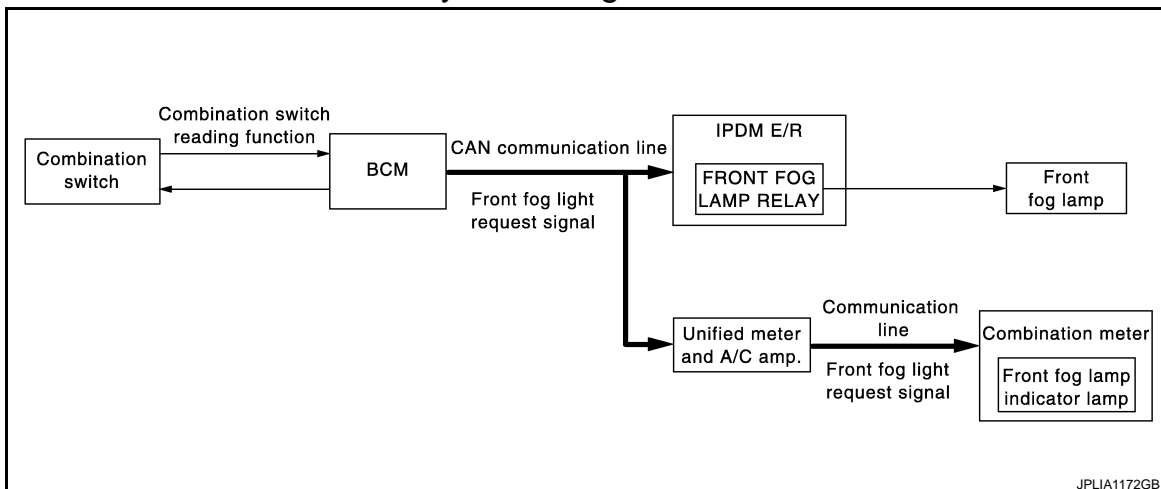
Daytime running light OFF condition

- Engine stopped
- Headlamp ON (passing included)
- IPDM E/R turns the integrated front fog lamp relay ON and turns the front fog lamp ON according to the front fog light request signal.

FRONT FOG LAMP SYSTEM

FRONT FOG LAMP SYSTEM : System Diagram

INFOID:000000005631783



JPLIA1172GB

SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

FRONT FOG LAMP SYSTEM : System Description

INFOID:000000005631784

OUTLINE

- Front fog lamp is integrated into the front combination lamp.
- Front fog lamp is controlled by combination switch reading function and front fog lamp control function of BCM, and relay control function of IPDM E/R.

NOTE:

For Canada models, the front fog lamp is turned ON as the daytime running light. Refer to [EXL-18, "DAYTIME RUNNING LIGHT SYSTEM : System Diagram"](#) for the detail.

FRONT FOG LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front fog light request signal to IPDM E/R and the combination meter (through unified meter and A/C amp.) with CAN communication according to the front fog lamp ON condition.

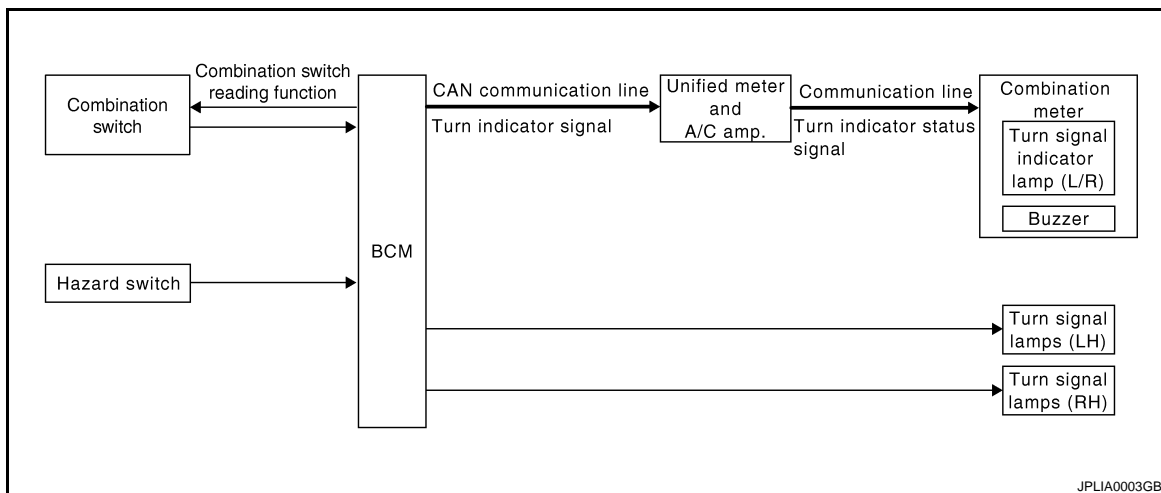
Front fog lamp ON condition

- Front fog lamp switch ON with the headlamp ON (except for the high beam ON)
- IPDM E/R turns the integrated front fog lamp relay ON, and turns the front fog lamp ON according to the front fog light request signal.

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Diagram

INFOID:000000005631787



TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description

INFOID:000000005631788

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.

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EXL

HIGH FLASHER OPERATION (FAIL-SAFE)

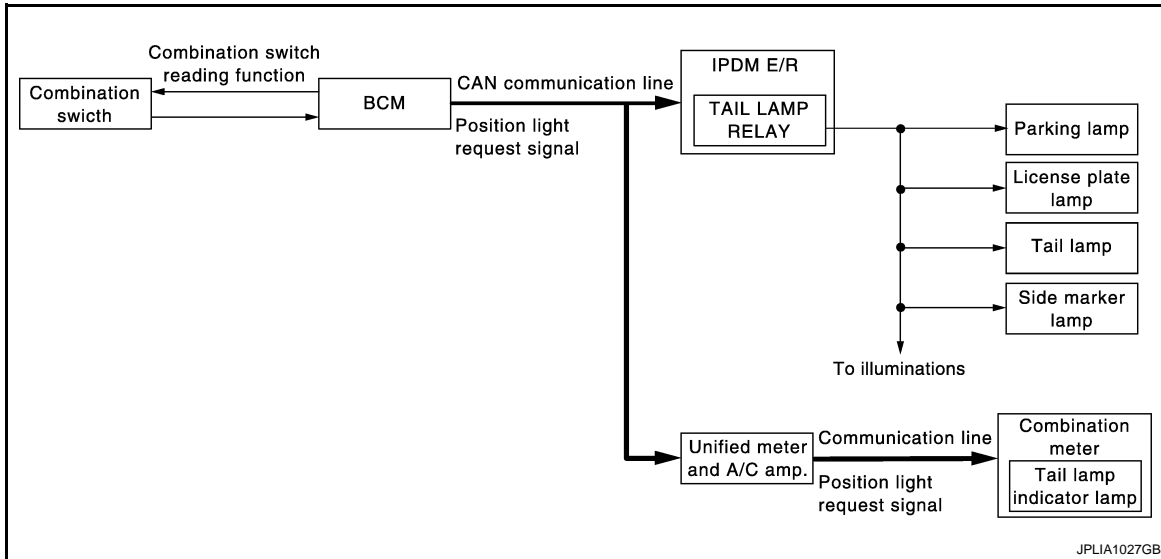
- BCM detects the turn signal lamp circuit status from the current value.
- BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

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

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : System Diagram INFOID:000000005631791



PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : System Description INFOID:000000005631792

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 tail lamp indicator lamp ON according to the position light request signal.

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM : Fail-safe INFOID:000000005808819

CAN COMMUNICATION CONTROL

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

If No CAN Communication Is Available With BCM

SYSTEM

< SYSTEM DESCRIPTION >

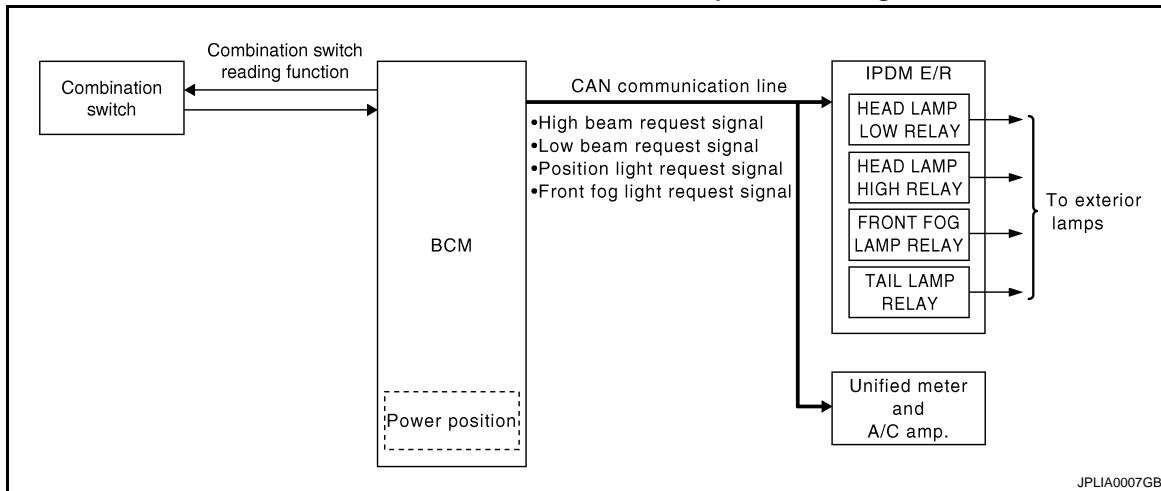
[XENON TYPE]

Control part	Fail-safe operation
<ul style="list-style-type: none"> • Parking lamps • Side maker lamp • License plate lamps • Illuminations • Tail lamps 	<ul style="list-style-type: none"> • Turns ON the tail lamp relay when the ignition switch is turned ON • Turns OFF the tail lamp relay when the ignition switch is turned OFF

EXTERIOR LAMP BATTERY SAVER SYSTEM

EXTERIOR LAMP BATTERY SAVER SYSTEM : System Diagram

INFOID:000000005631795



EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description

INFOID:000000005631796

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 front fog lamp.

NOTE:

When the lighting switch is turned AUTO, the exterior lamp battery saver switches to the auto light system. Refer to [EXL-16, "AUTO LIGHT SYSTEM : System Diagram"](#).

EXTERIOR LAMP BATTERY SAVER ACTIVATION

BCM activates the timer and turns the exterior lamp OFF 5 minutes after the ignition switch is turned from ON → 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-III Function (BCM - COMMON ITEM)

INFOID:000000005897703

APPLICATION ITEM

CONSULT-III 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. Refer to CONSULT-III operation manual.
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	This function is not used even though it is displayed.

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	×	×	×
—	MULTI REMOTE ENT*1			
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×*2	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
—	AIR CONDITONER*1			
• Intelligent Key system • Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE:

- *1: This item is displayed, but is not used.
- *2: At models with rain sensor this mode is displayed, but is not used.

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM)

[XENON TYPE]

< SYSTEM DESCRIPTION >

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

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK".)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"
	ACC>ON		While turning power supply position from "ACC" to "IGN"
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"
	OFF>ACC		While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)
CRANKING	Power supply position is "CRANKING" (At engine cranking)		
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <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. 	

HEADLAMP

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

INFOID:000000005631800

WORK SUPPORT

Service item	Setting item	Setting
BATTERY SAVER SET	On*	With the exterior lamp battery saver function
	Off	Without the exterior lamp battery saver function

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[XENON TYPE]

Service item	Setting item	Setting
ILL DELAY SET	MODE 1*	45 sec.
	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.
Sets delay timer function timer operation time. (All doors closed)		
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

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 unified meter and A/C amp. 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]	
DOOR SW-DR [On/Off]	
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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[XENON TYPE]

Monitor item [Unit]	Description
DOOR SW- RL [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
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 headlamp (HI).
	Low	Transmits the low beam request signal with CAN communication to turn the headlamp (LO).
	Off	Stops the high & low beam request signal transmission.
FR FOG LAMP	On	Transmits the front fog light request signal to IPDM E/R with CAN communication to turn the front fog lamp ON.
	Off	Stops the front fog light request signal transmission.
RR FOG LAMP	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-III Function (BCM - FLASHER)

INFOID:000000005631801

EXL

WORK SUPPORT

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

*: Factory setting

DATA MONITOR

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)

DIAGNOSIS SYSTEM (BCM)

[XENON TYPE]

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
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 blink the right side turn signal lamps.
	LH	Outputs the voltage to blink the left side turn signal lamps.
	Off	Stops the voltage to turn the turn signal lamps OFF.

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:000000005897705

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
- Front fog 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-70](#), "[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 • Front fog lamps 	10 seconds
4	Headlamps	LO ↔ HI 5 times
5	A/C compressor (magnet clutch)	ON ↔ OFF 5 times
6*	Cooling fan	MID for 5 seconds → HI for 5 seconds

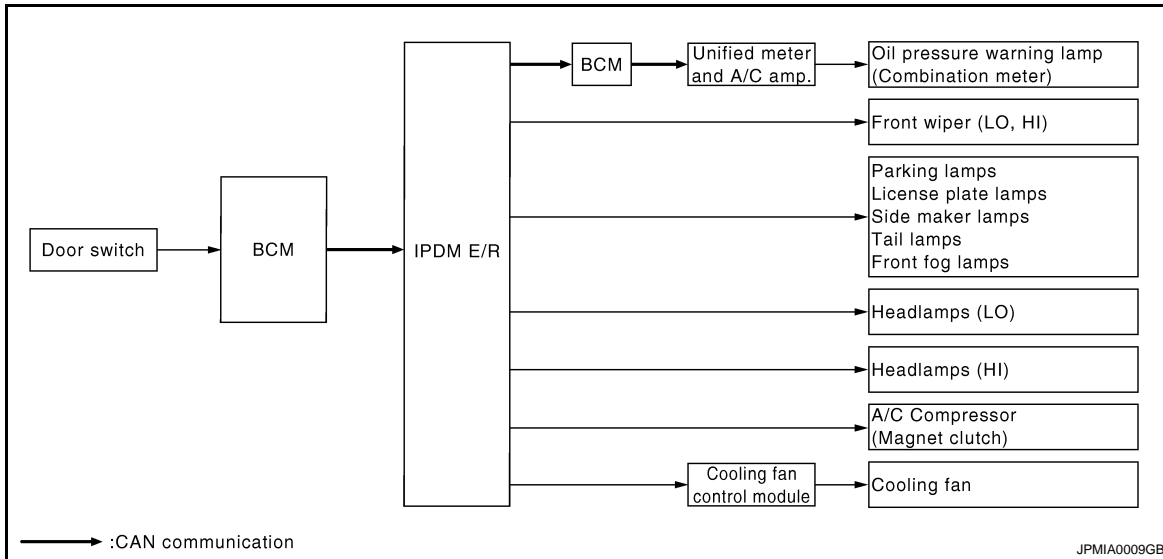
*: Outputs duty ratio of 50% for 5 seconds → duty ratio of 100% for 5 seconds on the cooling fan control module.

DIAGNOSIS SYSTEM (IPDM E/R)

[XENON TYPE]

< SYSTEM DESCRIPTION >

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 • Front fog 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-III Function (IPDM E/R)

INFOID:000000005897706

APPLICATION ITEM

CONSULT-III 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-30, "DTC Index"](#).

DATA MONITOR

Monitor item

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 front fog 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 auto stop signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.

DIAGNOSIS SYSTEM (IPDM E/R)

[XENON TYPE]

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	MAIN SIG- NALS	Description
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/INH RLY [Off/ ST ON/INH 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]		Displays the status of the steering lock relay request received from BCM via CAN communication.
S/L STATE [LOCK/UNLOCK/UNKWN]		Displays the status of the steering lock judged by IPDM E/R.
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

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.
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.

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

Test item	Operation	Description
HEAD LAMP WASHER	On	NOTE: The item is indicated, but cannot be tested.
	Off	OFF
EXTERNAL LAMPS	TAIL	Operates the tail lamp relay.
	Lo	Operates the headlamp low relay.
	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals.
	Fog	Operates the front fog lamp relay.

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ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:000000005808802

ECU	Reference
BCM	BCS-43, "Reference Value"
	BCS-71, "Fail-safe"
	BCS-73, "DTC Inspection Priority Chart"
	BCS-74, "DTC Index"
IPDM E/R	PCS-18, "Reference Value"
	PCS-28, "Fail-safe"
	PCS-30, "DTC Index"

HEADLAMP SYSTEM

< WIRING DIAGRAM >

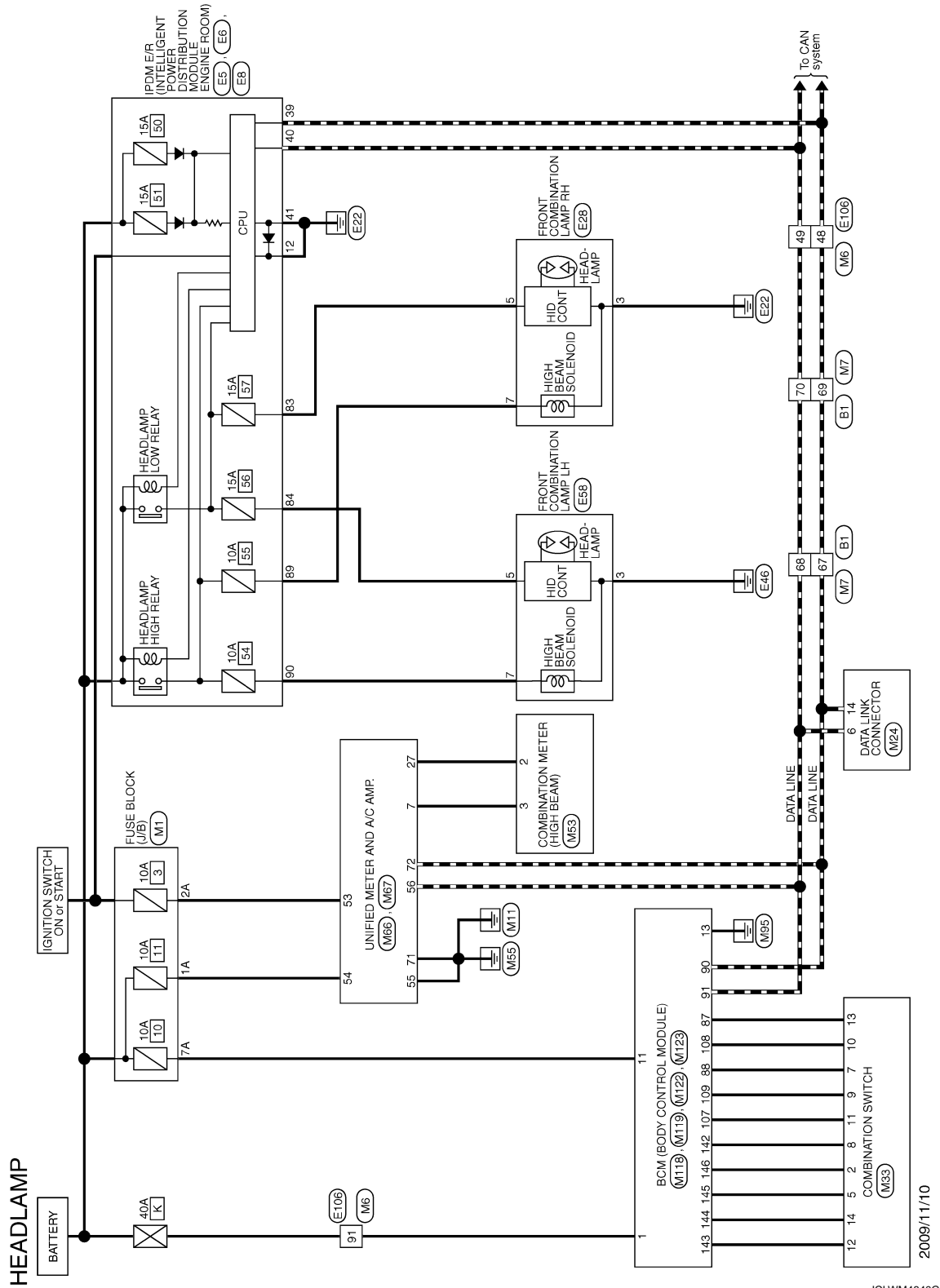
[XENON TYPE]

WIRING DIAGRAM

HEADLAMP SYSTEM

Wiring Diagram - HEADLAMP -

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HEADLAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

HEADLAMP

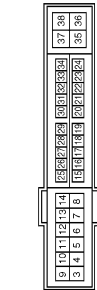
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
7	G	-
8	BR	-
9	Y	-
10	SHIELD	-
11	SHIELD	-
12	SHIELD	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
18	G	-
19	SHIELD	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	V	-
30	SHIELD	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
38	Y	- [Without climate controlled seat]
39	V	- [With climate controlled seat]
40	GR	- [Without climate controlled seat]
41	SHIELD	-
42	L	-
43	P	-
44	SHIELD	-

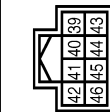
44	SB	-
45	V	-
46	W	-
47	SB	-
48	LG	-
49	Y	- [With BOSE system]
50	SB	- [Without BOSE system]
51	LG	-
52	G	-
53	LG	-
54	BR	-
55	Y	-
56	W	-
57	V	-
58	R	-
59	BR	-
60	B	-
61	BG	-
62	B	-
63	L	-
64	P	-
65	B	-
66	SB	-
67	P	-
68	L	-
69	P	-
70	L	-
71	GR	-
72	V	-
73	R	-
74	BR	-
75	G	-
76	L	-
77	Y	-
78	BR	-
79	Y	-
80	G	-
81	V	-
82	R	-
83	BR	-
84	G	-
85	L	-
86	Y	-
87	GR	-
88	Y	-
89	R	-
90	Y/B	-

Connector No.	E5
Connector Name	ENGINE ROOM INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	TH08FW-CS12-M4-IV



Terminal No.	Color of Wire	Signal Name [Specification]
4	V	-
5	L	-
6	R	-
7	BR	-
8	B/W	-
9	Y	-
10	LG	-
11	W	-
12	G	-
13	R	-
14	BG	-
15	L	-
16	GR	-
17	V	-
18	P	-
19	G	-
20	R	-
21	BG	-
22	L	-
23	GR	-
24	V	-
25	P	-
26	G	-

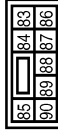
Connector No.	E6
Connector Name	ENGINE ROOM INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	TH08FW-RH



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

45	G	-
46	W	-

Connector No.	E8
Connector Name	ENGINE ROOM INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
83	R	-
84	P	-
85	W	-
86	L	-
87	G	-
88	BR	-
89	BR	-
90	LG	-

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-PR



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

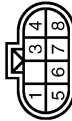
HEADLAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

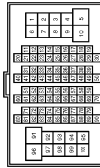
HEADLAMP

Connector No.	E106
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR



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

Connector No.	E106
Connector Name	WIRE TO WIPE
Connector Type	THR00FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
3	EG	-
4	B/W	-
5	G	-
6	EG	-
7	LG	-
8	G	-
10	W	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	Y	-

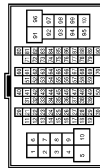
18	EG	-
19	GR	-
20	LG	-
30	R	-
31	L	-
32	EG	-
33	P	-
34	V	-
35	BR	-
36	W	-
37	Y	-
38	R	-
39	B	-
40	G	-
41	W	-
42	LG	-
43	SB	-
44	GR	-
45	EG	-
46	LG	-
47	V	-
48	P	-
49	L	-
59	B	-
66	LG	-
67	SB	-
68	R	-
69	W	-
70	G	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	EG	-
86	LG	-
87	GR	-
88	W	-
90	W	-
91	G	-
92	B	-
93	GR	-
94	L	-
95	Y	-
97	BR	-
98	SHIELD	-
99	L	-
100	P	-

Connector No.	M1
Connector Name	FUSE BLOCK (L/R)
Connector Type	MS08FW-MZ



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

Connector No.	M6
Connector Name	WIRE TO WIPE
Connector Type	THR00MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	EG	-
3	R	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
10	W	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-

17	BR	-
18	V	-
19	EG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	P	-
35	BR	-
36	BR	-
37	Y	-
38	LG	-
39	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	-
44	R	- [WIR. A/T]
45	EG	- [WIR. M/T]
46	G	-
47	P	-
48	P	-
49	L	-
59	B	-
66	Y	-
67	G	-
68	R	-
69	W	-
70	G	-
80	SB	-
81	R	-
82	V	-
83	W	-
84	L	-
85	EG	-
86	G	-
87	V	-
88	B	-
89	SB	-
90	G	-
91	W	-
92	B	-
93	G	-
94	L	-
95	BR	-
97	P	-
98	SHIELD	-
99	V	-
100	SB	-

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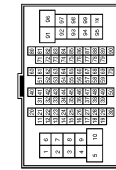
HEADLAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

HEADLAMP

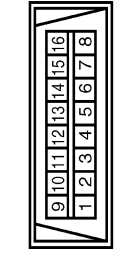
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



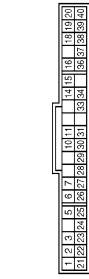
44	Y		
45	BR		
46	SB		
47	SB		
48	LG		
49	LG		
49	SB		
50	SB		
50	LG		
51	R		
52	V		
53	P		
54	BR		
55	Y		
55	BG		
56	L		
57	V		
60	LG		
61	BG		
62	B		
63	V		
64	SB		
65	BR		
66	Y		
67	P		
68	L		
69	P		
70	L		
80	G		
81	LG		
82	Y		
83	BR		
84	V		
85	L		
86	Y		
87	GR		
91	R		
93	G		
94	P		
95	GR		
96	Y		
97	SB		
99	Y		
100	Y/B		

Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	
2	LG	
3	G	
4	V	
5	L	
6	B	
8	L	
10	BR	
12	SHIELD	
13	V	
14	BR	
15	GR	
16	LG	
17	L	
20	BR	
21	G	
22	R	
23	SB	
24	B	
25	W	
26	Y	
27	V	
28	P	
29	V	
31	SHIELD	
32	G	
33	R	
34	BG	
35	GR	
36	BR	
37	P	
37	L	
38	V	
38	GR	
40	SHIELD	
41	L	
42	P	
43	SHIELD	

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

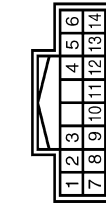


Connector No.	M33
Connector Name	COMBINATION METER
Connector Type	SB460FW



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	
4	B	
5	BR	
6	L	
7	V	
8	G	
11	SB	
14	P	
16	R	

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
2	LG	BATTERY POWER SUPPLY
3	GR	COMMUNICATION SIGNAL (METER->AMP.)
5	B	COMMUNICATION SIGNAL (AMP->METER)
6	W	GROUND
7	LG	ALTERNATOR SIGNAL
10	R	AIR BAG SIGNAL
15	B	SECURITY SIGNAL
16	B	GROUND
18	GR	METER CONTROL SWITCH GROUND
19	B	ILL. GND
20	R	ILL
21	R	IGNITION SIGNAL
22	B	GROUND
24	SB	COMMUNICATION SIGNAL (LCD->AMP.)
25	B	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	SB	BRAKE FLUID LEVEL SWITCH SIGNAL
29	L	SEAT BELT BUCKLE SW SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SW SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL SWITCH SIGNAL
33	R	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP A/B RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH (-)
40	BG	ILLUMINATION CONTROL SWITCH (+)

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

HEADLAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

HEADLAMP

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40PV-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Terminal No.	Color of Wire	Signal Name [Specification]
4	G	STOP LAMP SWITCH
5	L	MANUAL MODE SHIFT UP SIGNAL
6	EG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED (2-PULSE)
9	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	SB	COMMUNICATION SIGNAL (LCD->AMP)
20	G	IGN ON / OFF SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP)
28	R	VEHICLE SPEED (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	B	COMMUNICATION SIGNAL (AMP->LCD)
38	P	BLOWER MOTOR CONTROL SIGNAL

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH22PV-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Terminal No.	Color of Wire	Signal Name [Specification]
41	BR	ACC POWER SUPPLY
42	BR	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	V	AMBIENT SENSOR SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
46	BG	SUNLOAD SENSOR SIGNAL
47	G	GAS SENSOR SIGNAL
52	W	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	LG	BRAKE FLUID LEVEL SWITCH SIGNAL
58	Y	FUEL LEVEL SENSOR SIGNAL GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	R	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	L	IGN CONTROL MODE OUTPUT SIGNAL
65	BG	ECV SIGNAL
69	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	GR	GROUND
72	P	CAN-L

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



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

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FY-OS



4	5	6	7	8	9	10		
11	12	13	14	15	16	17	18	19

Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	P	PASSENGER DOOR UNLOCK OUTPUT
7	SB	STEP LAMP
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	GR	BAT (FUSE)
13	B	GNL
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	BG	ACC IND
17	BR	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	V	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
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Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2+
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NATS ANTENNA AMP-
81	W	NATS ANTENNA AMP
82	R	IGN RELAY (F/B) COIT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY COIT
96	GR	A.T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1

Terminal No.	Color of Wire	Signal Name [Specification]
98	SB	S/L CONDITION 2
99	R	SHIFT P (W/SH A/T)
99	R	AS CD /CG CLUTCH SW (W/SH M/T)
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

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HEADLAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

HEADLAMP

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-1N1



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
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Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	W	IGN P/B
124	BG	PASSENGER DOOR SW
129	BG	TRUNK LID OPENER CANCEL SW
132	LG	P/W SW & PRT C/U COMM
133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
148	W	TIRE PRESSURE WARN CHECK SW
150	R	DRIVER DOOR SW
151	G	REAR WINDOW DEFROGGER RELAY CONT

JCLWM4845GE

AUTO LIGHT SYSTEM

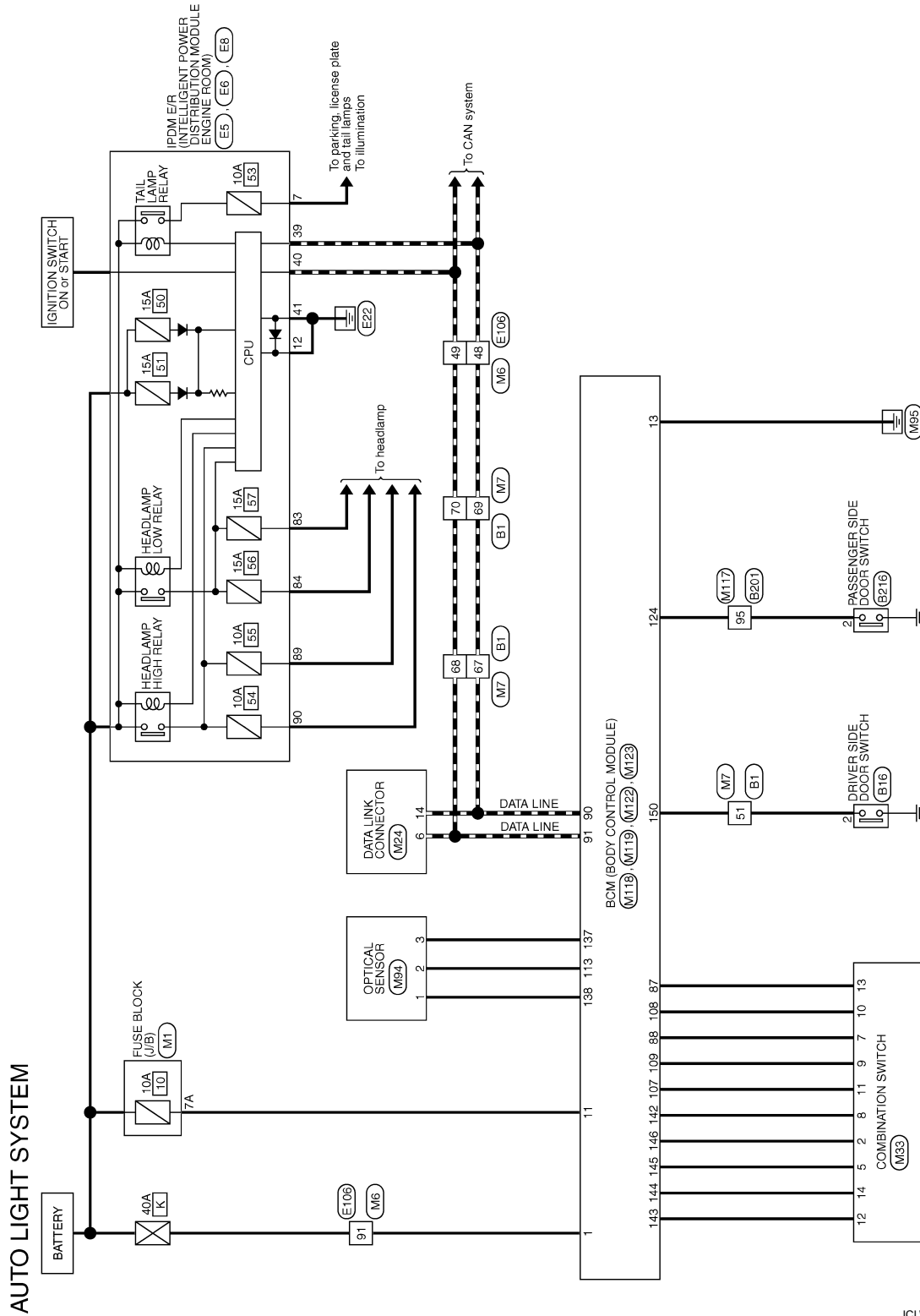
< WIRING DIAGRAM >

[XENON TYPE]

AUTO LIGHT SYSTEM

Wiring Diagram - AUTO LIGHT SYSTEM -

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AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

AUTO LIGHT SYSTEM

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



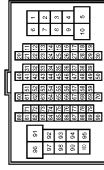
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	L	
3	R	
4	V	
5	W	
6	B	
8	G	
10	BR	
12	SHIELD	
13	Y	
14	L	
15	R	
16	W	
17	BR	
20	G	
21	SB	
22	GR	
23	W	
24	SB	
25	BR	
26	LG	
27	Y	
28	R	
29	V	
31	SHIELD	
32	G	
33	R	
34	BG	
35	GR	
36	BR	
37	P	- [With climate controlled seat]
37	Y	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	
41	L	
42	P	
43	SHIELD	

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	
3	B	

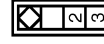
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
3	B	
5	W	
6	R	
7	B	
7	G	- [With climate controlled seat]
8	BG	- [Without climate controlled seat]
9	GR	
10	LG	
40	GR	
41	LG	
42	BG	
43	R	
44	SHIELD	
45	G	
47	G	
48	Y	
49	SHIELD	
50	P	
51	SB	

52	LG	
53	L	
54	G	
55	GR	
56	LG	
57	G	
58	R	
67	L	
68	P	
80	G	
81	R	
82	W	
83	B	
84	SHIELD	
85	O	
86	BR	
87	Y	
88	SHIELD	
89	SB	
90	V	
91	GR	
92	P	- [With BOSE system]
92	Y	- [Without BOSE system]
93	L	
94	SB	
95	V	
96	P	
97	L	- [With BOSE system]
97	LG	- [Without BOSE system]
98	Y/B	
99	Y	

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	V	
3	B	

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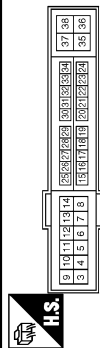
AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

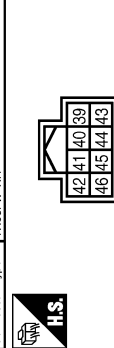
AUTO LIGHT SYSTEM

Connector No.	E5
Connector Name	SWAYLE INTELLIGENT POWER DISTRIBUTION MODULE (FUSE BLOCK)
Connector Type	TH80FW-CS12-M4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
4	V	-
5	L	-
7	R	-
11	BR	-
12	B/W	-
13	Y	-
16	LG	-
19	W	-
25	G	-
26	R	-
27	BG	-
28	L	-
30	GR	-
32	V	-
33	P	-
36	G	-

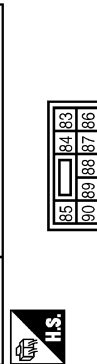
Connector No.	E6
Connector Name	SWAYLE INTELLIGENT POWER DISTRIBUTION MODULE (FUSE BLOCK)
Connector Type	TH80FW-IN1



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

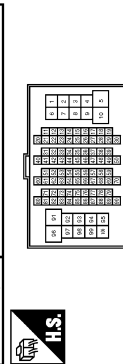
45	G	-
46	W	-

Connector No.	E8
Connector Name	SWAYLE INTELLIGENT POWER DISTRIBUTION MODULE (FUSE BLOCK)
Connector Type	NS30FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
83	R	-
84	P	-
85	W	-
87	L	-
88	G	-
89	BR	-
90	LG	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
3	BG	-
4	B/W	-
5	G	-
6	BG	-
7	LG	-
8	G	-
10	W	-
11	V	-
12	R	-
13	L	-

14	GR	-
15	P	-
16	W	-
17	V	-
18	BG	-
19	GR	-
20	LG	-
30	R	-
31	L	-
32	BG	-
33	P	-
34	V	-
35	BR	-
36	W	-
37	Y	-
38	R	-
39	B	-
40	G	-
41	W	-
42	LG	-
43	SB	-
44	GR	-
45	BG	-
46	LG	-
47	V	-
48	P	-
49	L	-
59	B	-
66	LG	-
67	SB	-
69	R	-
70	G	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	BG	-
86	LG	-
87	Y	-
88	GR	-
90	W	-
91	G	-
92	B	-
93	GR	-
94	L	-
95	Y	-
97	BR	-
98	SHIELD	-
99	L	-

100	P	-
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Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS30FW-M2



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

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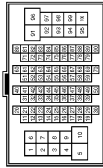
AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

AUTO LIGHT SYSTEM

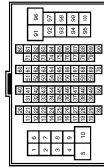
Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	R	-
3	G	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
9	W	-
10	GR	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	V	-
19	BG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	P	-
35	BR	-
36	BR	-
37	Y	-
38	LG	-
39	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	-
45	BG	-
46	G	-
47	P	-
48	P	-

49	L	-
59	B	-
66	Y	-
67	C	-
68	R	-
69	W	-
70	G	-
80	SB	-
81	R	-
82	V	-
83	W	-
84	L	-
85	BG	-
86	G	-
87	V	-
88	B	-
89	SB	-
90	G	-
91	W	-
92	B	-
93	G	-
94	L	-
95	BR	-
97	P	-
98	SHIELD	-
99	V	-
100	SB	-

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

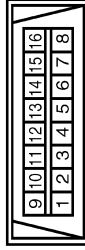


Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	LG	-
3	G	-
4	V	-
5	L	-
6	B	-
9	L	-
10	BR	-
12	SHIELD	-

13	V	-
14	BR	-
15	GR	-
16	LG	-
17	L	-
20	BR	-
21	G	-
22	R	-
23	SB	-
24	B	-
25	W	-
26	L	-
27	V	-
28	P	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	-
38	L	-
39	GR	-
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-
44	Y	-
45	BR	-
46	SB	-
47	SB	-
48	LG	-
49	LG	-
50	SB	-
51	LG	-
52	R	-
53	P	-
54	BR	-
55	Y	-
56	BG	-
57	V	-
60	LG	-
61	BG	-
62	B	-
63	V	-
64	SB	-
65	BR	-

66	Y	-
67	P	-
68	L	-
69	P	-
70	P	-
80	G	-
81	LG	-
82	Y	-
83	BR	-
84	V	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	G	-
94	P	-
95	GR	-
96	Y	-
97	SB	-
99	Y	-
100	Y/B	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	BR	-
6	L	-
7	V	-
8	G	-
11	SB	-
14	P	-
16	R	-

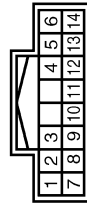
AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

AUTO LIGHT SYSTEM

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



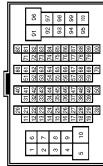
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	FR WASHER (-)
2	SB	OUTPUT 4
5	L	OUTPUT 3
6	B	GND
7	EG	INPUT 3
8	BR	OUTPUT 5
9	W	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	V	OUTPUT 1
13	Y	INPUT 5
14	G	OUTPUT 2

Connector No.	M84
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	POWER
2	G	OUTPUT
3	B	GND

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TR60MP-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
3	B	
5	SB	
6	R	
7	G	
8	SB	
9	GR	
10	LG	
40	Y	
41	G	
42	LG	
43	R	
44	SHIELD	
45	G	
47	P	
48	L	
49	SHIELD	
50	V	
51	SB	
52	BG	
53	L	
54	G	
55	Y	
56	LG	
57	SB	
58	LG	
67	SB	
68	LG	
80	W	
81	B	
82	R	
83	G	
84	SHIELD	
85	G	
86	L	
87	P	
88	SHIELD	
89	Y	

90	W	--
91	GR	--
92	B	--
93	W	--
94	BG	--
95	BG	--
96	P	--
97	L	--
98	Y/B	--
99	Y	--

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FE-LC



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	P	PASSENGER DOOR UNLOCK OUTPUT
7	SB	STEP LAMP
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	GR	BAT (E/USE)
13	B	GND

14	W	PUSH-BUTTON IGNITION SW ILL GND
15	BG	ACC I/ND
17	BR	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	V	ROOM LAMP TIMER CONTROL

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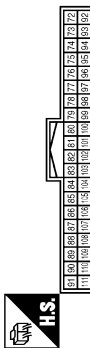
AUTO LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

AUTO LIGHT SYSTEM

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4CFB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NATS ANTRINNA AMP
81	W	NATS ANTRINNA AMP
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHIFT P. [W/O A/T]
99	R	ASCD/ICC CLUTCH SW [With M/T]
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4CFG-NH



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

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DAYTIME RUNNING LIGHT SYSTEM

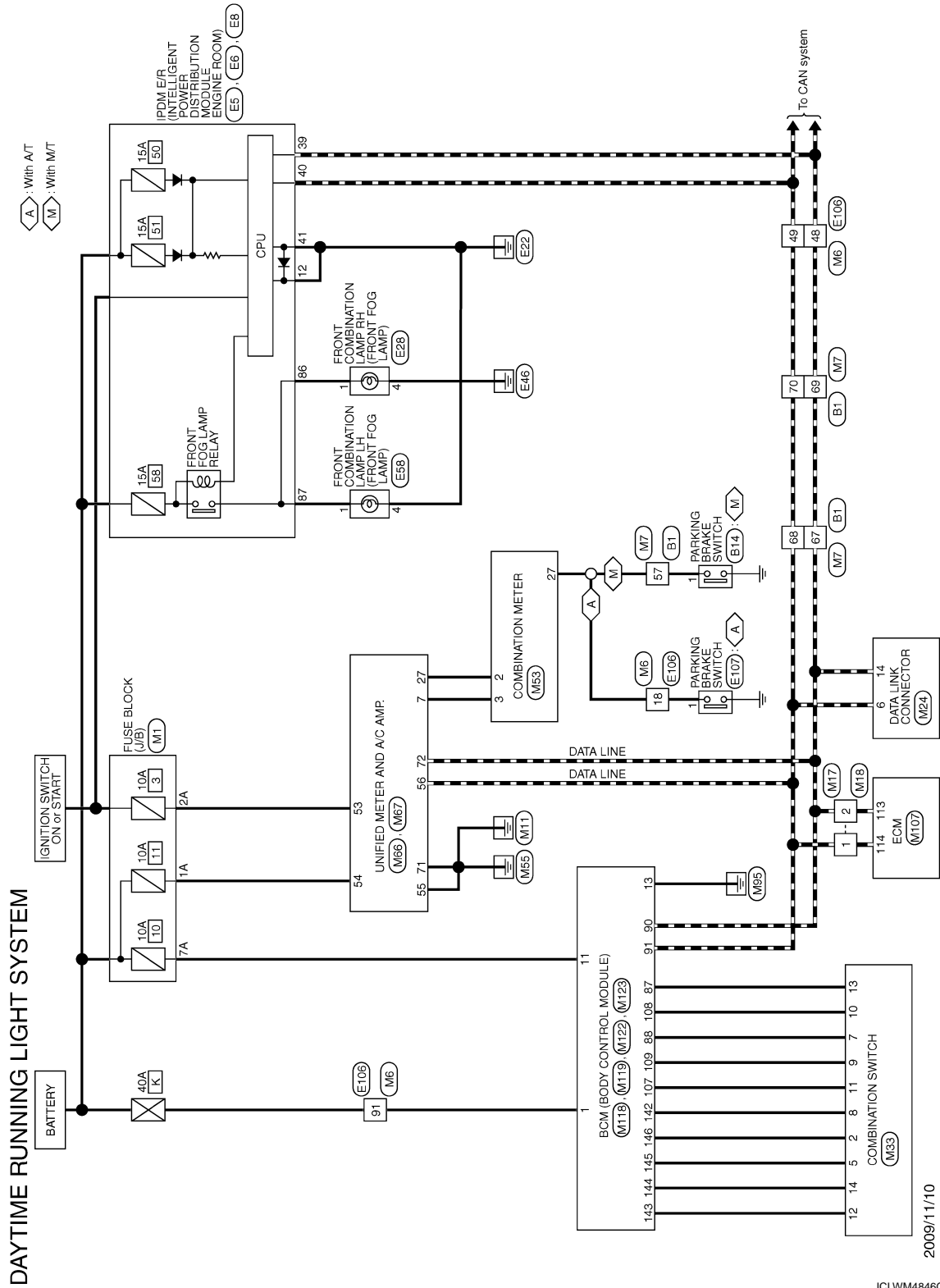
< WIRING DIAGRAM >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Wiring Diagram - DAYTIME LIGHT SYSTEM -

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DAYTIME RUNNING LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH03FW-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
8	G	-
10	BR	-
12	SHIELD	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	Y	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

44	SB	-
45	V	-
46	W	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system]
49	Y	- [Without BOSE system]
50	SB	-
50	LG	- [With BOSE system]
51	SB	-
52	G	-
53	LG	-
54	BR	-
55	Y	-
56	W	-
57	V	-
60	R	-
61	BG	-
62	B	-
63	L	-
64	P	-
65	B	-
66	SB	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	V	-
82	R	-
83	BR	-
84	G	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	BG	-
94	P	-
95	GR	-
96	GR	-
97	SB	-
99	Y	-
100	Y/B	-

Connector No.	B14
Connector Name	PARKING BRAKE SWITCH
Connector Type	F01FB-A



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

Connector No.	E5
Connector Name	ENGINE R INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	TH03FW-CS12-M4-TV



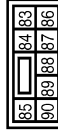
Terminal No.	Color of Wire	Signal Name [Specification]
4	V	-
5	L	-
7	R	-
11	BR	-
12	B/W	-
13	V	-
16	LG	-
19	W	-
25	G	-
26	R	-
27	BG	-
29	L	-
30	GR	-
32	V	-
33	P	-
36	G	-

Connector No.	E6
Connector Name	ENGINE R INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	TH03FW-NH



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

Connector No.	E8
Connector Name	ENGINE R INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	NS03FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
83	R	-
84	P	-
86	W	-
87	L	-
88	G	-
89	BR	-
90	LG	-

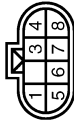
DAYTIME RUNNING LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

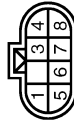
DAYTIME RUNNING LIGHT SYSTEM

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-PR



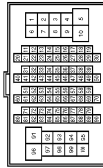
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
3	B	-
4	B/W	-
5	R	-
6	LG	-
7	BR	-
8	P	-

Connector No.	E58
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TR06CPT-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
3	BG	-
4	B/W	-
5	G	-
6	BG	-
7	LG	-
8	G	-
10	W	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	V	-
18	BG	-
19	GR	-
20	LG	-
30	R	-
31	L	-
32	BG	-
33	P	-
34	V	-
35	BR	-
36	W	-
37	Y	-
38	R	-
39	B	-
40	G	-
41	W	-
42	LG	-
43	SB	-
44	GR	-
45	BG	-
46	LG	-
47	V	-
48	P	-
49	L	-

59	B	-
66	LG	-
67	SB	-
68	R	-
69	W	-
70	G	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	BG	-
86	LG	-
87	Y	-
88	GR	-
89	W	-
90	W	-
91	G	-
92	B	-
93	GR	-
94	L	-
95	Y	-
97	BR	-
98	SHIELD	-
99	L	-
100	P	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



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

Connector No.	MI
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS03FW-M2



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

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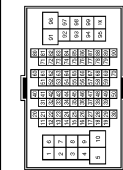
DAYTIME RUNNING LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

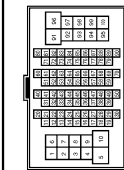
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	R	-
3	R	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
9	W	-
10	W	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	V	-
19	BG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	P	-
35	BR	-
36	BR	-
37	Y	-
38	LG	-
39	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	- [With A/T] - [With M/T]
45	BG	-
46	G	-
47	P	-
48	P	-

49	L	-
59	B	-
66	Y	-
67	C	-
68	R	-
69	W	-
70	G	-
80	SB	-
81	R	-
82	V	-
83	W	-
84	L	-
85	BG	-
86	G	-
87	V	-
88	B	-
89	SB	-
90	G	-
91	W	-
92	B	-
93	G	-
94	L	-
95	BR	-
97	P	-
98	SHIELD	-
99	V	-
100	SB	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	LG	-
3	G	-
4	V	-
5	L	-
6	B	-
9	L	-
10	BR	-
12	SHIELD	-

66	Y	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	LG	-
82	Y	-
83	BR	-
84	V	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	G	-
94	P	-
95	GR	-
96	Y	-
97	SB	-
99	Y	-
100	Y/B	-

Connector No.	M17
Connector Name	WIRE TO WIRE
Connector Type	TK02FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

13	V	-
14	BR	-
15	GR	-
16	LG	-
17	L	-
20	BR	-
21	G	-
22	R	-
23	SB	-
24	B	-
25	W	-
26	L	-
27	V	-
28	P	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat] - [Without climate controlled seat]
38	V	- [With climate controlled seat] - [Without climate controlled seat]
39	GR	-
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-
44	Y	-
45	BR	-
46	SB	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system] - [Without BOSE system]
50	SB	- [With BOSE system] - [Without BOSE system]
53	V	-
54	BR	-
55	Y	- [With A/T] - [With M/T]
56	L	-
57	V	-
60	LG	-
61	BG	-
62	B	-
63	V	-
64	SR	-
65	BR	-

DAYTIME RUNNING LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TK22NW



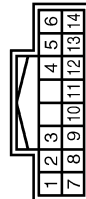
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

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



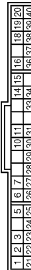
Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	BR	-
6	L	-
7	V	-
8	G	-
11	SB	-
14	P	-
16	R	-

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	OUTPUT 4
5	L	OUTPUT 3
6	B	GND
7	EG	INPUT 3
8	BR	OUTPUT 5
9	W	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	V	OUTPUT 1
13	Y	INPUT 5
14	G	OUTPUT 2

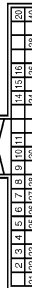
Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	LG	AIR BAG SIGNAL
10	R	SECURITY SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
18	GR	ILL. GND

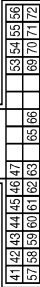
Terminal No.	Color of Wire	Signal Name [Specification]
19	B	ILL. GND
20	R	ILL.
21	R	IGNITION SIGNAL
22	B	GROUND
24	SB	COMMUNICATION SIGNAL (LCD->AMP.)
25	B	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	SB	BRAKE FLUID LEVEL SWITCH SIGNAL
29	L	SEAT BELT BUCKLE SW SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL SWITCH SIGNAL
33	R	ILLUMINATION CONTROL SIGNAL
36	LG	ENTER SWITCH SIGNAL
37	SB	SELECT SWITCH SIGNAL
38	L	TRIP A/B RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH (-)
40	BG	ILLUMINATION CONTROL SWITCH (+)

Connector No.	M66
Connector Name	UNIFIED METER AND A / C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	G	STOP LAMP SWITCH
5	L	MANUAL MODE SHIFT UP SIGNAL
6	BG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED (2-PULSE)
9	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	SB	COMMUNICATION SIGNAL (LCD->AMP.)
20	G	ION ON / OFF SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP.)
28	R	VEHICLE SPEED (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	B	COMMUNICATION SIGNAL (AMP->LCD)
38	P	BLOWER MOTOR CONTROL SIGNAL

Connector No.	M67
Connector Name	UNIFIED METER AND A / C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
41	BR	AGC POWER SUPPLY
42	BR	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	V	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	G	GAS SENSOR SIGNAL
53	W	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	GAN-H
57	LG	BRAKE FLUID LEVEL SWITCH SIGNAL
58	Y	FUEL LEVEL SENSOR SIGNAL GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	R	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	L	ION CONTROL MODE OUTPUT SIGNAL
65	BG	ECV SIGNAL
69	L	A / C LAMP SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	GR	GROUND
72	P	GAN-L

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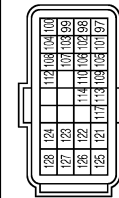
DAYTIME RUNNING LIGHT SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

DAYTIME RUNNING LIGHT SYSTEM

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R26-R-LH-Z



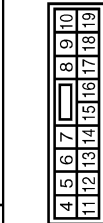
Terminal No.	Color of Wire	Signal Name [Specification]
97	R	APS 1
98	P	APS 2
99	L	AVCC 1-APS 1
100	W	GND-APS 1
101	SB	ASCDSW
102	G	FTPRS
103	G	AVCC 2-APS 2
104	GR	GND-APS 2
105	L	PDPRESS
106	LG	TF
107	BR	AVCC-PDPRES
108	Y	GND ASCDSW
109	G	NEUT-H
110	BR	TACHO
112	R	GND-APS 2
113	P	VEHCAN-LI
114	L	VEHCAN-HI
117	V	KLINE
121	LG	GDOV
122	P	BRAKE
123	B	GND
124	B	GND
125	B	VERP
126	BR	BNGSW
127	B	GND
128	B	GND

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



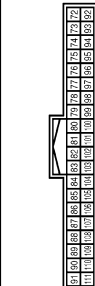
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (RAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FY-CS



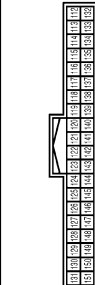
Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	P	PASSENGER DOOR UNLOCK OUTPUT
7	SB	STEP LAMP
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	GR	BAT FUSE
13	B	GND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	BG	ACC IND
17	BR	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	V	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	R	ROOM ANT 2
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1
79	BR	ROOM ANT 1+
80	GR	NATS ANTRNNA AMP
81	W	NATS ANTRNNA AMP
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHIFT P (With A/T)
99	R	ASCD/ICC CLUTCH SW (With M/T)
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

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



Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	W	IGN F/B
124	BG	PASSENGER DOOR SW
129	BG	TRUNK LID OPENER CANCEL SW
132	LG	P/W SW & RHT C/U COMM
133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
148	W	TIRE PRESSURE WARN CHECK SW
149	R	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

FRONT FOG LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

FRONT FOG LAMP

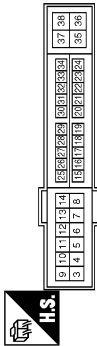
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH03FW-CS16-TM44



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
7	G	-
8	G	-
9	BR	-
10	BR	-
12	SHIELD	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	Y	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	Y	- [Without climate controlled seat]
38	Y	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

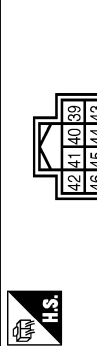
44	SB	-
45	V	-
46	W	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system]
49	Y	- [Without BOSE system]
50	SB	-
50	LG	- [With BOSE system]
50	LG	- [Without BOSE system]
51	SB	-
52	G	-
53	LG	-
54	BR	-
55	Y	-
56	W	-
57	V	-
60	R	-
61	BG	-
62	B	-
63	L	-
64	P	-
65	B	-
66	SB	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	V	-
82	R	-
83	BR	-
84	G	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	BG	-
94	L	-
95	GR	-
96	GR	-
97	SB	-
99	Y	-
100	Y/B	-

Connector No.	E5
Connector Name	ENGINE ROOM INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	TH03FW-CS12-M4-IV



Terminal No.	Color of Wire	Signal Name [Specification]
4	V	-
5	L	-
7	R	-
11	BR	-
12	B/W	-
13	Y	-
16	LG	-
18	W	-
25	G	-
26	R	-
27	BG	-
28	L	-
30	GR	-
32	V	-
33	P	-
36	G	-

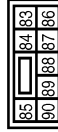
Connector No.	E6
Connector Name	ENGINE ROOM INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	TH03FW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
38	P	-
40	L	-
41	B/W	-
42	Y	-
43	SB	-
44	LG	-

45	G	-
46	W	-

Connector No.	E8
Connector Name	ENGINE ROOM INTELLIGENT POWER DISTRIBUTION MODULE
Connector Type	NS03FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
83	R	-
84	P	-
86	W	-
87	L	-
88	G	-
89	BR	-
90	LG	-

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS03FB-PR



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

JCLWM4859GE

FRONT FOG LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

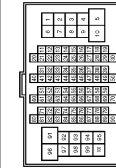
FRONT FOG LAMP

Connector No.	E16
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR



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

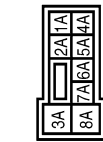
Connector No.	E106
Connector Name	WIRE TO WIPE
Connector Type	THR0FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	EG	-
3	B/W	-
4	B	-
5	G	-
6	BG	-
7	LG	-
8	G	-
9	V	-
10	W	-
11	Y	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	Y	-

18	BG	-
19	GR	-
20	LG	-
30	R	-
31	L	-
32	EG	-
33	P	-
34	V	-
35	BR	-
36	W	-
37	Y	-
38	R	-
39	B	-
40	G	-
41	W	-
42	LG	-
43	SB	-
44	GR	-
45	EG	-
46	LG	-
47	V	-
48	P	-
49	L	-
59	B	-
66	LG	-
67	SB	-
68	R	-
69	W	-
70	G	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	EG	-
86	LG	-
87	GR	-
88	W	-
90	W	-
91	G	-
92	B	-
93	GR	-
94	L	-
95	Y	-
97	BR	-
98	SHIELD	-
99	L	-
100	P	-

Connector No.	M1
Connector Name	FUSE BLOCK (L/R)
Connector Type	MS08FW-MZ



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

Connector No.	M6
Connector Name	WIRE TO WIPE
Connector Type	THR0MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	EG	-
3	R	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
10	W	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-

17	BR	-
18	V	-
19	EG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	P	-
35	BR	-
36	BR	-
37	Y	-
38	LG	-
39	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	-
44	R	- [WIR. A/T]
45	EG	- [WIR. M/T]
46	G	-
47	P	-
48	P	-
49	L	-
59	B	-
66	Y	-
67	G	-
68	R	-
69	W	-
70	G	-
80	SB	-
81	R	-
82	V	-
83	W	-
84	L	-
85	EG	-
86	G	-
87	V	-
88	B	-
89	SB	-
90	G	-
91	W	-
92	B	-
93	G	-
94	L	-
95	BR	-
97	P	-
98	SHIELD	-
99	V	-
100	SB	-

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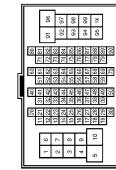
FRONT FOG LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

FRONT FOG LAMP

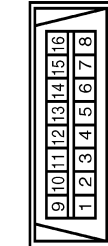
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS (F-TIM)



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	G	-
3	G	-
4	V	-
5	L	-
6	B	-
7	L	-
8	B	-
9	L	-
10	BR	-
12	SHIELD	-
13	V	-
14	BR	-
15	GR	-
16	LG	-
17	L	-
20	BR	-
21	G	-
22	R	-
23	SB	-
24	B	-
25	W	-
26	Y	-
27	V	-
28	P	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	L	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

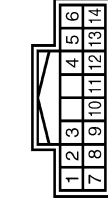
44	Y	-
45	BR	-
46	SB	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system]
49	SB	- [Without BOSE system]
50	SB	- [With BOSE system]
50	LG	- [Without BOSE system]
51	R	-
52	V	-
53	P	-
54	BR	-
55	Y	- [With A/T]
55	BG	- [Without A/T]
56	L	-
57	V	-
60	LG	-
61	BG	-
62	B	-
63	V	-
64	SB	-
65	BR	-
66	Y	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	LG	-
82	Y	-
83	BR	-
84	V	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	G	-
94	P	-
95	GR	-
96	Y	-
97	SB	-
99	Y	-
100	Y/B	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	BR	-
6	L	-
7	V	-
8	G	-
11	SB	-
14	P	-
16	R	-

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



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

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	IM03FB-LC



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

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



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

FRONT FOG LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

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FRONT FOG LAMP

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4CFB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NATS ANTRRNA AMP
81	W	NATS ANTRRNA AMP
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHFT P. (M/G, A/T)
99	R	ASCD/ICC CLUTCH SW (With M/T)
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4CFG-NH



Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
122	W	IGN F/B
124	BG	PASSENGER DOOR SW
129	BG	TRUNK LID OPERER CANCEL SW
132	LG	P/W SW & RHT C/U COMM
133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
146	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
149	W	TIRE PRESSURE WARN CHECK SW
150	R	DRIVER DOOR SW
151	G	REAR WINDOW DEFROGGER RELAY CONT

JCLWM4862GE

EXL

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

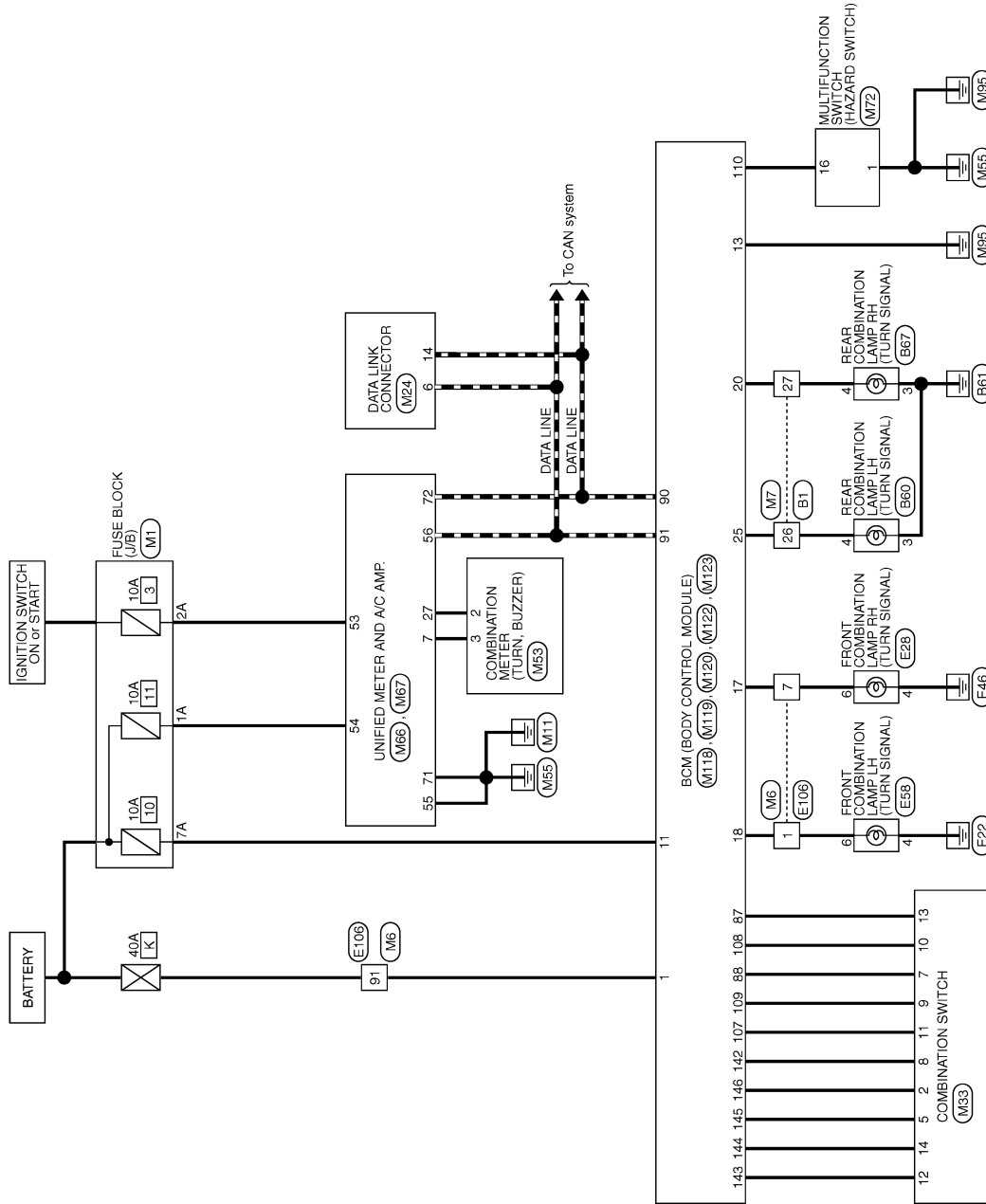
[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram - TURN AND HAZARD WARNING LAMPS -

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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

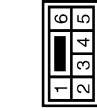
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80PV-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
7	G	-
8	BR	-
9	SHIELD	-
10	BR	-
11	SHIELD	-
12	Y	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
18	G	-
19	SHIELD	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	V	-
30	SHIELD	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	Y	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

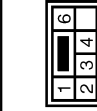
44	SB	-
45	Y	-
46	W	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system]
49	Y	- [Without BOSE system]
50	SB	-
50	LG	- [With BOSE system]
50	LG	- [Without BOSE system]
51	SB	-
52	G	-
53	LG	-
54	BR	-
55	Y	-
56	W	-
57	V	-
60	R	-
61	BG	-
62	B	-
63	L	-
64	P	-
65	B	-
66	SB	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	V	-
82	R	-
83	BR	-
84	G	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	BG	-
94	P	-
95	GR	-
96	GR	-
97	SB	-
99	Y	-
100	Y/B	-

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	MS98MW-CS



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

Connector No.	B67
Connector Name	REAR COMBINATION LAMP RH
Connector Type	MS98MW-CS



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

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS30FEB-PR



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

Connector No.	E88
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS30FEB-PR



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

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

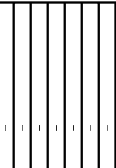
TURN SIGNAL AND HAZARD WARNING LAMPS

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	THB07V-CS16-TM4



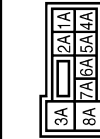
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	GR	-
3	BG	-
4	B/W	-
5	G	-
6	BG	-
7	LG	-
8	G	-
10	W	-
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	V	-
18	BG	-
19	GR	-
20	LG	-
30	R	-
31	L	-
32	BG	-
33	P	-
34	V	-
35	BR	-
36	W	-
37	Y	-
38	R	-
39	B	-
40	G	-
41	W	-
42	LG	-
43	SB	-
44	GR	-
45	BG	-
46	LG	-
47	V	-
48	L	-

Connector No.	B
Connector Name	LG
Connector Type	SS
59	W
66	G
67	R
68	W
69	W
70	G
80	W
81	P
82	G
83	V
84	L
85	BG
86	LG
87	Y
88	GR
89	W
90	W
91	G
92	B
93	GR
94	Y
95	W
97	BR
98	SHIELD
99	L
100	P



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
3	R	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
10	W	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	V	-
19	BG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	B	-
35	BR	-
36	BR	-
37	Y	-
38	LG	-
39	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	-
45	Y	-
46	BG	-
47	G	-
48	P	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS00FW-M2



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

49	L
59	B
66	Y
67	G
68	R
69	W
70	G
80	SB
81	R
82	V
83	W
84	L
85	BG
86	G
87	V
88	BR
89	SS
90	G
91	W
92	B
93	G
94	L
95	BR
97	P
98	SHIELD
99	V
100	SS

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	THB0MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
3	R	-
4	G	-
5	G	-
6	BR	-
7	BR	-
8	Y	-
10	W	-
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	V	-
19	BG	-
20	L	-
30	R	-
31	L	-
32	Y	-
33	GR	-
34	B	-
35	BR	-
36	BR	-
37	Y	-
38	LG	-
39	SB	-
40	G	-
41	W	-
42	LG	-
43	P	-
44	GR	-
45	R	-
46	BG	-
47	G	-
48	P	-

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMPS

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH42FY-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
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Terminal No.	Color of Wire	Signal Name [Specification]
4	G	STOP LAMP SWITCH
5	L	MANUAL MODE SHIFT UP SIGNAL
6	EG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED (2-PULSE)
9	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	SB	COMMUNICATION SIGNAL (LCD->AMP)
20	G	IGN ON / OFF SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP)
28	R	VEHICLE SPEED (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	B	COMMUNICATION SIGNAL (AMP->LCD)
38	P	BLOWER MOTOR CONTROL SIGNAL

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH22FY-NH



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
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Terminal No.	Color of Wire	Signal Name [Specification]
41	BR	ACC POWER SUPPLY
42	BR	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	V	AMBIENT SENSOR SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
46	BG	SUNLOAD SENSOR SIGNAL
47	G	GAS SENSOR SIGNAL
53	W	IGNITION POWER SUPPLY
54	EG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	LG	BRAKE FLUID LEVEL SWITCH SIGNAL
58	Y	FUEL LEVEL SENSOR SIGNAL GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	R	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	L	ION CONTROL MODE OUTPUT SIGNAL
65	BG	ECV SIGNAL
69	L	A/C LAM SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	GR	GROUND
72	P	CAN-L

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FY-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
4	EG	ILL
5	L	ILL CONT.
6	SB	AV COMM (RH)
8	LG	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL
16	G	HAZARD ON

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FE-LC



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

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS16FW-CS



4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	P	PASSENGER DOOR UNLOCK OUTPUT
7	SB	STEP LAMP
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	GR	BAT (RUSE)
13	B	GND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	BG	ACC IND
17	BR	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	V	ROOM LAMP TIMER CONTROL

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS12FW-CS



20	21	22	23	24	25	26	27	28	29	30	31
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Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
23	Y	TRUNK LID OPEN OUTPUT
25	Y	TURN SIGNAL LH (REAR)
30	P	TRUNK ROOM LAMP

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

TURN SIGNAL AND HAZARD WARNING LAMPS

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4CFB-NH



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
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Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4CFG-NH



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
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Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2--
73	G	ROOM ANT 2+-
74	SB	PASSENGER DOOR ANT--
75	BR	PASSENGER DOOR ANT+-
76	V	DRIVER DOOR ANT--
77	LG	DRIVER DOOR ANT+-
78	Y	ROOM ANT 1--
79	BR	ROOM ANT 1+-
80	GR	NATS ANTRRNA AMP
81	W	NATS ANTRRNA AMP
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHFT P. (MIG. A/T)
99	R	ASCD/ICC CLUTCH SW (With M/T)
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
123	W	IGN F/B
124	BG	PASSENGER DOOR SW
129	BG	TRUNK LID OPERER CANCEL SW
132	LG	P/W SW & RHT C/U COMM
133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
148	W	TIRE PRESSURE WARN CHECK SW
149	R	DRIVER DOOR SW
151	G	REAR WINDOW DEFROGGER RELAY CONT

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EXL

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

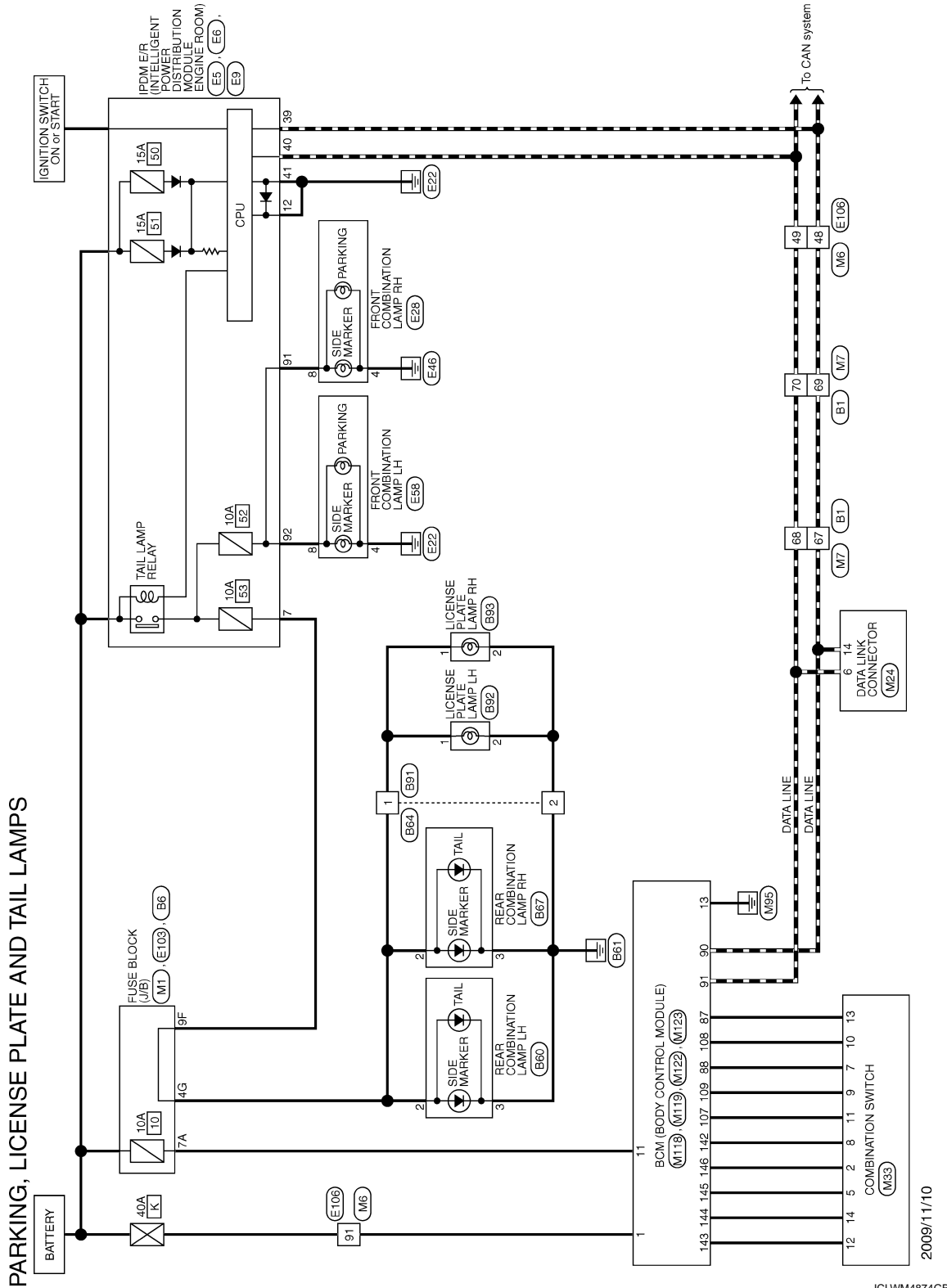
< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram - PARKING LICENSE PLATE AND TAIL LAMPS -

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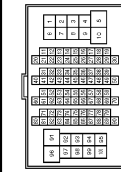
PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS

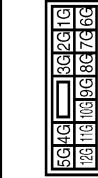
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
8	G	-
9	G	-
10	BR	-
12	SHIELD	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	Y	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

44	SB	-
45	V	-
46	W	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system]
49	Y	- [Without BOSE system]
50	SB	- [With BOSE system]
50	LG	- [Without BOSE system]
51	SB	-
52	G	-
53	LG	-
54	BR	-
55	Y	-
56	W	-
57	V	-
60	R	-
61	BG	-
62	B	-
63	L	-
64	P	-
65	B	-
66	SB	-
68	L	-
69	P	-
70	L	-
80	G	-
81	V	-
82	R	-
83	BR	-
84	G	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	BG	-
94	P	-
95	GR	-
96	GR	-
97	SR	-
99	Y	-
100	Y/B	-

Connector No.	B6
Connector Name	FUSE BLOCK (L/R)
Connector Type	MS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4G	R	-
5G	LG	-
6G	G	-
10G	P	-
11G	G	-
12G	Y	-

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	MS98MW-CS



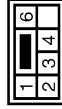
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	B	-
4	LG	-
5	W	-
6	BG	-

Connector No.	B64
Connector Name	WIRE TO WIRE
Connector Type	RK02FCY



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

Connector No.	B67
Connector Name	REAR COMBINATION LAMP RH
Connector Type	MS98MW-CS



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

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS

Connector No.	B91
Connector Name	WIRE TO WIRE
Connector Type	RK02MGY



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

Connector No.	B92
Connector Name	LICENSE PLATE LAMP LH
Connector Type	RV02FBR



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

Connector No.	B93
Connector Name	LICENSE PLATE LAMP RH
Connector Type	RV02FBR



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
4	V	-
5	L	-
7	R	-
11	BR	-
12	B/W	-
13	Y	-
16	LG	-
19	W	-
25	G	-
26	R	-
27	BG	-
28	L	-
30	GR	-
32	V	-
33	P	-
36	G	-

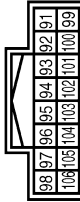
Connector No.	E6
Connector Name	FUSE R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
38	P	-
40	L	-
41	B/W	-
42	Y	-
43	SB	-
44	LG	-

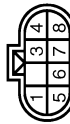
45	G	-
46	W	-

Connector No.	E9
Connector Name	FUSE R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH10FW-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	RS08FB-PR



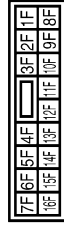
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
3	B	-
4	B/W	-
5	R	-
6	LG	-
7	BR	-
8	P	-

Connector No.	E68
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR



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

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1F	SS	-
2F	V	-
4F	G	-
6F	BG	-
8F	L	-
9F	R	-

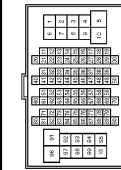
PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS

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

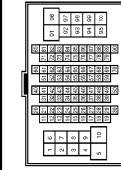


Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2		
3	EG	
4	B/W	
5	G	
6	EG	
7	LG	
8	G	
9	W	
10	W	
11	V	
12	R	
13	L	
14	GR	
15	P	
16	W	
17	V	
18	EG	
19	GR	
20	LG	
30	R	
31	L	
32	EG	
33	P	
34	V	
35	BR	
36	W	
37	Y	
38	R	
39	B	
40	G	
41	W	
42	LG	
43	SB	
44	GR	
45	EG	
46	LG	
47	V	
48	L	

59	B	
66	LG	
67	SB	
68	R	
69	W	
70	G	
80	W	
81	P	
82	G	
83	V	
84	L	
85	BG	
86	LG	
87	Y	
88	GR	
89	W	
90	W	
91	G	
92	B	
93	GR	
94	L	
95	Y	
97	BR	
98	SHIELD	
99	L	
100	P	



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



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	
3	R	
4	G	
5	G	
6	BR	
7	BR	
8	Y	
10	W	
11	GR	
12	R	
13	L	
14	G	
15	P	
16	W	
17	BR	
18	V	
19	BG	
20	L	
30	R	
31	L	
32	Y	
33	GR	
34	P	
35	BR	
36	BR	
37	Y	
38	LG	
39	SB	
40	G	
41	W	
42	LG	
43	P	
44	GR	
44	R	
45	BG	
46	G	
47	P	
48	P	

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



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

49	L	
59	B	
66	V	
67	G	
68	R	
69	W	
70	G	
80	SB	
81	R	
82	V	
83	W	
84	L	
85	BG	
86	G	
87	V	
88	B	
89	SS	
90	G	
91	W	
92	B	
93	G	
94	L	
95	BR	
97	P	
98	SHIELD	
99	V	
100	SB	

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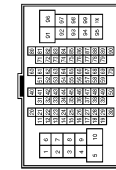
PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS

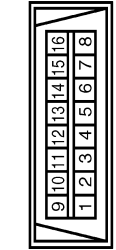
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS (E-TIM)



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	G	-
3	G	-
4	V	-
5	L	-
6	B	-
7	L	-
8	B	-
9	L	-
10	BR	-
12	SHIELD	-
13	V	-
14	BR	-
15	GR	-
16	LG	-
17	L	-
20	BR	-
21	G	-
22	R	-
23	SB	-
24	B	-
25	W	-
26	Y	-
27	V	-
28	P	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	L	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

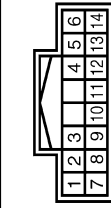
44	Y	-
45	BR	-
46	SB	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system]
49	SB	- [Without BOSE system]
50	SB	- [With BOSE system]
50	LG	- [Without BOSE system]
51	R	-
52	V	-
53	P	-
54	BR	-
55	Y	- [With A/T]
55	BG	- [Without A/T]
56	L	-
57	V	-
60	LG	-
61	BG	-
62	B	-
63	V	-
64	SB	-
65	BR	-
66	Y	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	LG	-
82	Y	-
83	BR	-
84	V	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	G	-
94	P	-
95	GR	-
96	Y	-
97	SB	-
99	Y	-
100	Y/B	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	BR	-
6	L	-
7	V	-
8	G	-
11	SB	-
14	P	-
16	R	-

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



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

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	IM03FB-LC



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

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



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

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

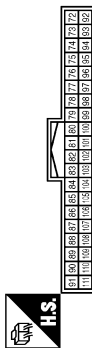
< WIRING DIAGRAM >

[XENON TYPE]

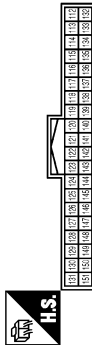
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PARKING, LICENSE PLATE AND TAIL LAMPS

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



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



Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT 2-
73	G	ROOM ANT 2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT 1-
79	BR	ROOM ANT 1+
80	GR	NATS ANTRRNA AMP
81	W	NATS ANTRRNA AMP
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	BG	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	SB	S/L CONDITION 2
99	R	SHFT P. (MIG. A/T)
99	R	ASCD/ICC CLUTCH SW (With M/T)
100	Y	PASSENGER DOOR REQUEST SW
101	P	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	W	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Terminal No.	Color of Wire	Signal Name [Specification]
112	BR	RAIN SENSOR SERIAL LINK
113	G	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	GR	DR DOOR UNLOCK SENSOR
121	SB	KEY SLOT SW
122	W	IGN F/B
124	BG	PASSENGER DOOR SW
129	BG	TRUNK LID OPERER CANCEL SW
132	LG	P/W SW & RHT C/U COMM
133	Y	PUSH-BUTTON IGNITION SW ILL POWER
134	LG	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	Y	RECEIVER / SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	R	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	V	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
146	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
149	W	TIRE PRESSURE WARN CHECK SW
150	R	DRIVER DOOR SW
151	G	REAR WINDOW DEFROGGER RELAY CONT

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EXL

STOP LAMP

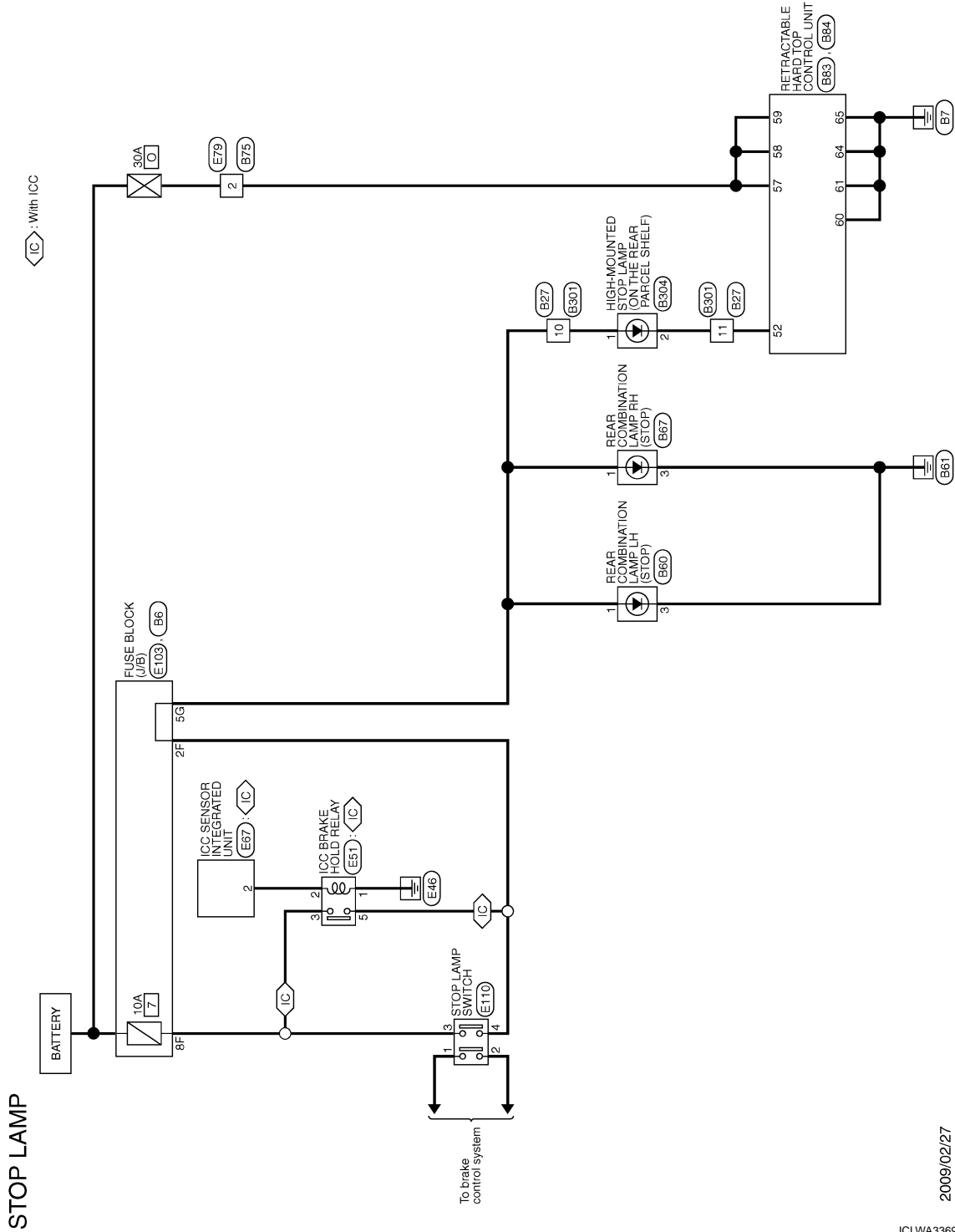
< WIRING DIAGRAM >

[XENON TYPE]

STOP LAMP

Wiring Diagram - STOP LAMP -

INFOID:000000005631875



STOP LAMP

< WIRING DIAGRAM >

[XENON TYPE]

STOP LAMP

Connector No.	B84
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	MS18FW-CS



63	62	61	60	59	58	57
72	71	70	69	68	67	66
65	64	63	62	61	60	59
58	57	56	55	54	53	52

Terminal No.	Color of Wire	Signal Name [Specification]
57	Y	BAT
58	Y	BAT
59	Y	BAT
60	B	BAT
61	B	GND
62	GR	BAT (POWER WINDOW)
63	Y	BAT (POWER WINDOW)
64	B	GND (POWER WINDOW)
65	B	GND (POWER WINDOW)
66	P	SWITCHING VALVE 1
67	SB	SWITCHING VALVE 2
68	L	SWITCHING VALVE GND
69	G	REAR WINDOW DEF IN 1
70	P	REAR WINDOW DEF IN 2
71	BR	REAR WINDOW DEF OUT 1
72	W	REAR WINDOW DEF OUT 2

Connector No.	B73
Connector Name	WIRE TO WIRE
Connector Type	MS20MH-LC



1	2
---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	B83
Connector Name	RETRACTABLE HARD TOP CONTROL UNIT
Connector Type	MS18FBR-CS



47	46	45	44	43	42	41
56	55	54	53	52	51	50
49	48	47	46	45	44	43
42	41	40	39	38	37	36

Terminal No.	Color of Wire	Signal Name [Specification]
41	SB	PARCEL SHELF MOTOR RELAY GND (UP)
42	W	PARCEL SHELF MOTOR RELAY GND (DOWN)
43	BR	HYDRAULIC PUMP POWER SUPPLY RELAY
44	B	MOTOR PARCEL SHELF (HORIZONTAL)
45	BR	MOTOR PARCEL SHELF (VERTICAL)
46	G	FLIPPER DOOR RELAY POWER SUPPLY (UP)
47	L	FLIPPER DOOR RELAY POWER SUPPLY (DOWN)
48	R	ROOF LATCH MOTOR (OPEN)
49	Y	ROOF LATCH MOTOR (CLOSE)
50	SB	TRUNK OPENER ACTUATOR
51	V	TRUNK OPENER ACTUATOR GND
52	GR	REAR POWER WINDOW MOTOR LH (UP)
53	BG	REAR POWER WINDOW MOTOR LH (DOWN)
54	LG	REAR POWER WINDOW MOTOR RH (UP)
55	GR	REAR POWER WINDOW MOTOR RH (DOWN)
56	P	REAR POWER WINDOW MOTOR RH (DOWN)

Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS06MW-CS



1	2	3	4	5	6
---	---	---	---	---	---

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

Connector No.	B67
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS06MW-CS



1	2	3	4	6
---	---	---	---	---

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

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



5G	4G	3G	2G	1G
10G	9G	8G	7G	6G

Terminal No.	Color of Wire	Signal Name [Specification]
4G	R	-
5G	LG	-
6G	G	-
10G	P	-
11G	G	-
12G	Y	-

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	-
2	P	-
3	G	-
4	W	-
5	R	-
6	P	-
7	GR	-
10	LG	-
11	B	-
12	B	-
13	V	-
14	SB	-
15	L	-
16	V	-

JCLWM4869GE

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STOP LAMP

< WIRING DIAGRAM >

[XENON TYPE]

STOP LAMP

Connector No.	E301
Connector Name	WIRE TO WIRE
Connector Type	MS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	GR	-
3	G	-
4	W	-
5	Y	-
6	P	-
7	P	-
10	LG	-
11	B	-
12	B	-
13	V	-
14	BR	-
15	L	-
16	Y	-

Connector No.	E304
Connector Name	HIGH-MOUNTED STOP LAMP (ON THE REAR PANEL SHIELD)
Connector Type	TK02MBR-P



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

Connector No.	E51
Connector Name	LOC BRAKE HOLD RELAY
Connector Type	MS02FL-M2-LC



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

Connector No.	E67
Connector Name	LOC SENSOR INTEGRATED UNIT
Connector Type	RS06FB-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IGNITION
2	V	BRAKE HOLD RELAY DRIVE SIGNAL
3	L	CAN-H
4	B	GND
6	P	CAN-L

Connector No.	E79
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	LG	-

Connector No.	E103
Connector Name	FUSE BLOCK (L/B)
Connector Type	MS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1F	SB	-
2F	V	-
4F	G	-
6F	BG	-
8F	L	-
9F	R	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	V	-
3	L	- [With ICC]
3	Y	- [Without ICC]
4	SB	- [With ICC]
4	W	- [Without ICC]

JCLWM4870GE

BACK-UP LAMP

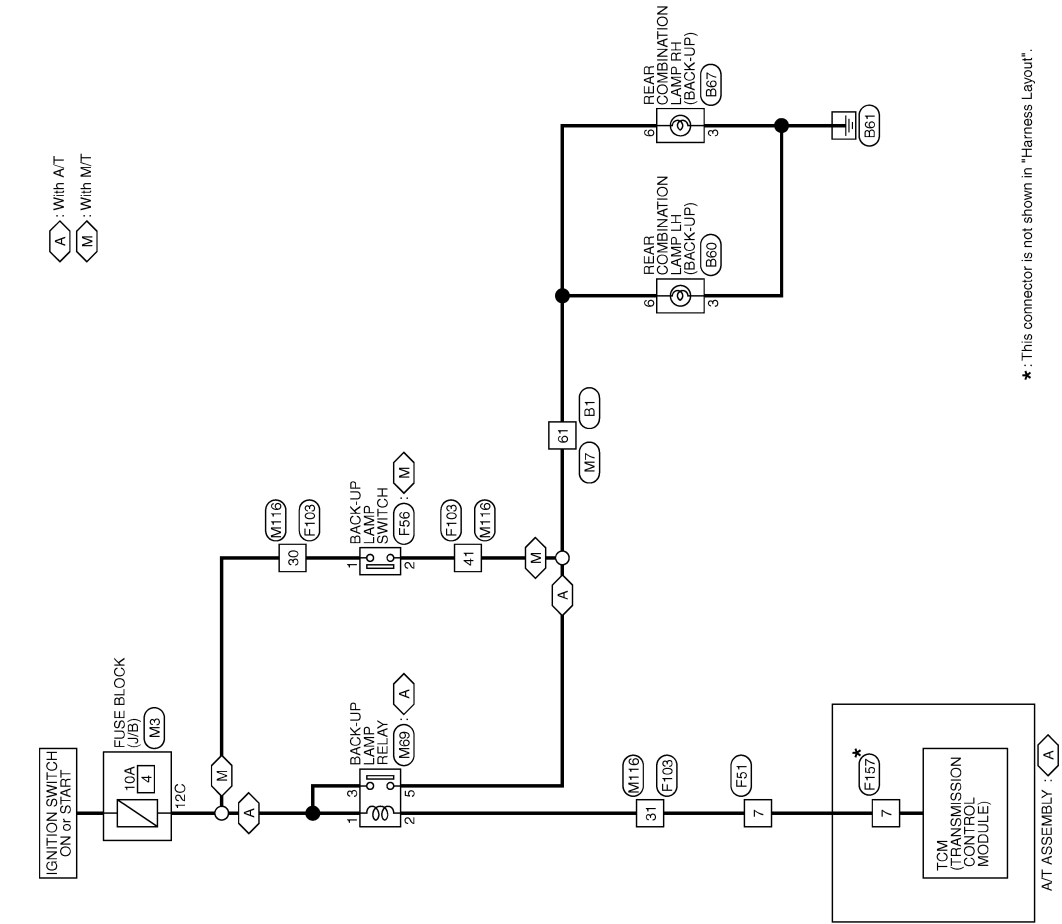
< WIRING DIAGRAM >

[XENON TYPE]

BACK-UP LAMP

Wiring Diagram - BACK-UP LAMP -

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BACK-UP LAMP

2009/02/27

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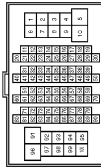
BACK-UP LAMP

< WIRING DIAGRAM >

[XENON TYPE]

BACK-UP LAMP

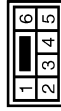
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THB07V-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	V	-
5	W	-
6	B	-
8	G	-
10	BR	-
12	SHIELD	-
13	Y	-
14	L	-
15	R	-
16	W	-
17	BR	-
20	G	-
21	SB	-
22	GR	-
23	W	-
24	SB	-
25	BR	-
26	LG	-
27	Y	-
28	R	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	BR	-
37	P	- [With climate controlled seat]
37	Y	- [Without climate controlled seat]
38	V	- [With climate controlled seat]
38	GR	- [Without climate controlled seat]
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-

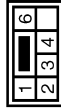
44	SB	-
45	V	-
46	W	-
47	SB	-
48	LG	-
49	LG	- [With BOSE system]
49	Y	- [Without BOSE system]
50	SB	- [With BOSE system]
50	LG	- [Without BOSE system]
51	SB	-
52	G	-
53	LG	-
54	BR	-
55	Y	-
56	W	-
57	V	-
60	R	-
61	BG	-
62	B	-
63	L	-
64	P	-
65	B	-
66	SB	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	V	-
82	R	-
83	BR	-
84	G	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	BG	-
94	P	-
95	GR	-
96	GR	-
97	SB	-
99	Y	-
100	Y/B	-

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS08MW-CS



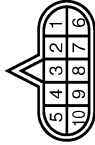
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	B	-
4	LG	-
5	W	-
6	BG	-

Connector No.	B87
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS08MW-CS



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

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



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

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



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

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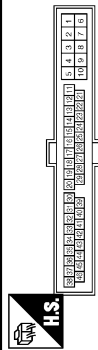
BACK-UP LAMP

< WIRING DIAGRAM >

[XENON TYPE]

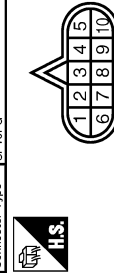
BACK-UP LAMP

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-MS10



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

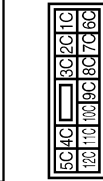
Connector No.	F157
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FG



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	VIGN
2	B	BATT
3	R	CAN-H
4	O	K-LINE

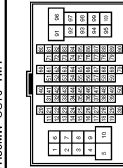
5	G	GND
6	GR	VIGN
7	L	REV LAMP RLY
8	BR	CAN-L
9	Y	STARTER RLY
10	W/B	GND

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



Terminal No.	Color of Wire	Signal Name [Specification]
7C	R	
8C	W	
9C	BG	
10C	L	
11C	LG	
12C	R	

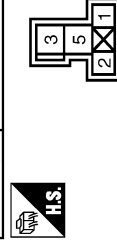
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MH-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BG	
2	LG	
3	G	
4	V	
5	L	
6	B	
9	L	

64	SR	-
65	BR	-
66	Y	-
67	P	-
68	L	-
69	P	-
70	L	-
80	G	-
81	LG	-
82	Y	-
83	BR	-
84	V	-
85	L	-
86	Y	-
87	GR	-
91	R	-
93	G	-
94	P	-
95	GR	-
96	Y	-
97	SB	-
99	Y	-
100	Y/B	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	W	
3	LG	
5	BG	

10	BR	-
12	SHIELD	-
13	W	-
14	BR	-
15	GR	-
16	LG	-
17	L	-
20	BR	-
21	G	-
22	R	-
23	SB	-
24	B	-
25	W	-
26	Y	-
27	V	-
28	P	-
29	V	-
31	SHIELD	-
32	G	-
33	R	-
34	BG	-
35	GR	-
36	R	-
37	P	-
38	L	-
39	V	-
40	SHIELD	-
41	L	-
42	P	-
43	SHIELD	-
44	Y	-
45	BR	-
46	SB	-
47	SB	-
48	LG	-
49	SB	-
50	SB	-
51	R	-
52	V	-
53	P	-
54	BR	-
55	Y	-
56	L	-
57	V	-
60	LG	-
61	BG	-
62	B	-
63	V	-

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BACK-UP LAMP

< WIRING DIAGRAM >

[XENON TYPE]

BACK-UP LAMP

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK68MW-NS1.0



Terminal No.	Color of Wire	Signal Name [Specification]
2	W	-
3	BG	-
4	R	-
5	B	-
9	R	-
10	R	-
18	BG	-
20	Y	-
28	GR	-
29	LG	-
30	LG	-
31	W	-
41	BG	-
42	G	-
43	P	-
44	L	-
45	G	-
46	Y	-

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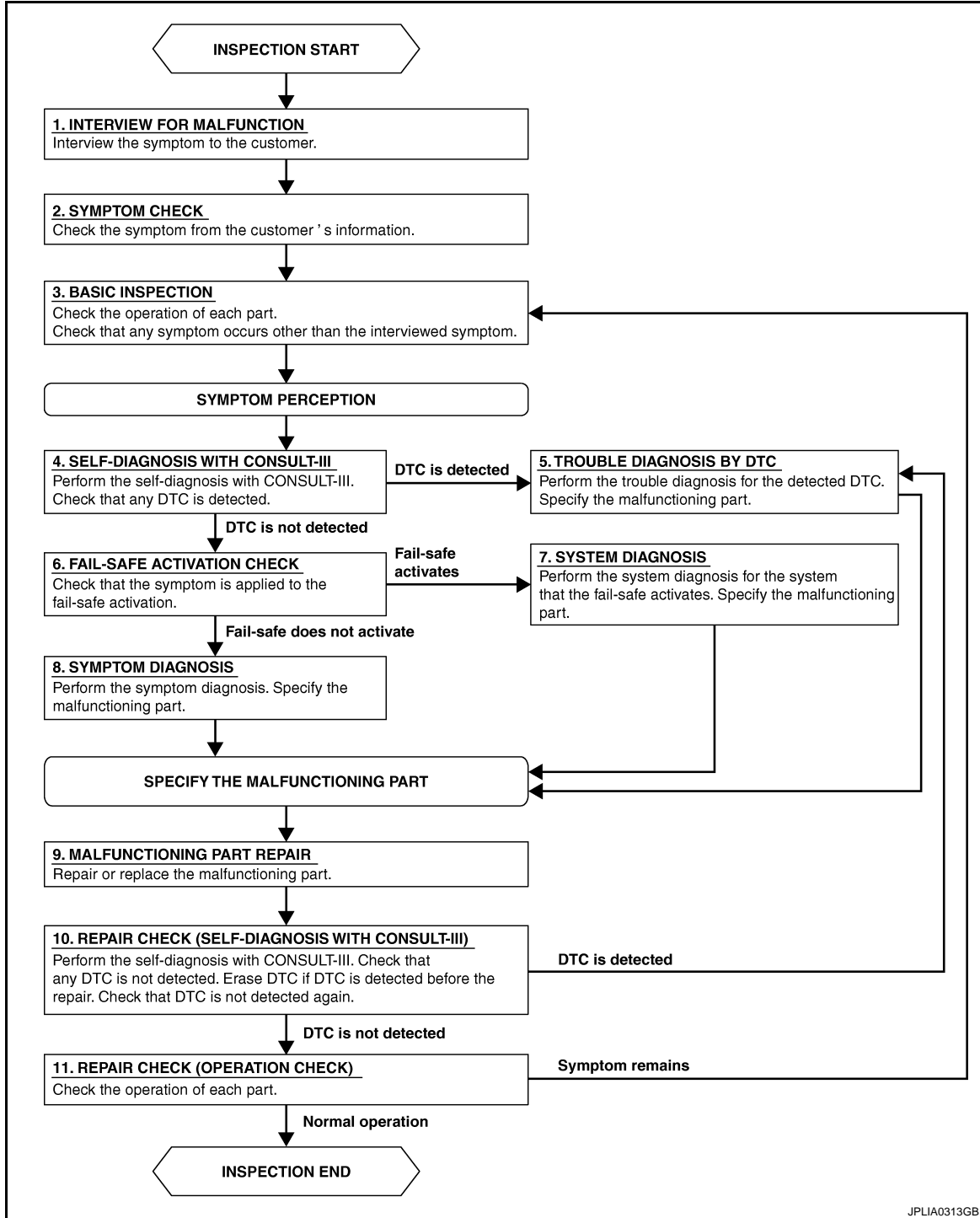
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000005631760

OVERALL SEQUENCE



DETAILED FLOW

1. INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

[XENON TYPE]

< BASIC INSPECTION >

>> GO TO 2.

2. SYMPTOM CHECK

Check the symptom from the customer's information.

>> GO TO 3.

3. BASIC INSPECTION

Check the operation of each part. Check that any symptom occurs other than the interviewed symptom.

>> GO TO 4.

4. SELF-DIAGNOSIS WITH CONSULT-III

Perform the self-diagnosis with CONSULT-III. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

5. TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9.

6. FAIL-SAFE ACTIVATION CHECK

Check that the symptom is applied to the fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.

NO >> GO TO 8.

7. SYSTEM DIAGNOSIS

Perform the system diagnosis for the system that the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

8. SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9. MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT-III)

Perform the self-diagnosis with CONSULT-III. Check that any DTC is not detected. Erase DTC if DTC is detected before the repair. Check that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 11.

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 3.

EXTERIOR LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

DTC/CIRCUIT DIAGNOSIS

EXTERIOR LAMP FUSE

Description

INFOID:000000005631839

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
Front fog lamp	IPDM E/R	#58	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
Stop lamp	FUSE BLOCK (J/B)	#7	10 A
Back-up lamp	FUSE BLOCK (J/B)	#4	10 A

Diagnosis Procedure

INFOID:000000005631840

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
Front fog lamp	IPDM E/R	#58	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
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]

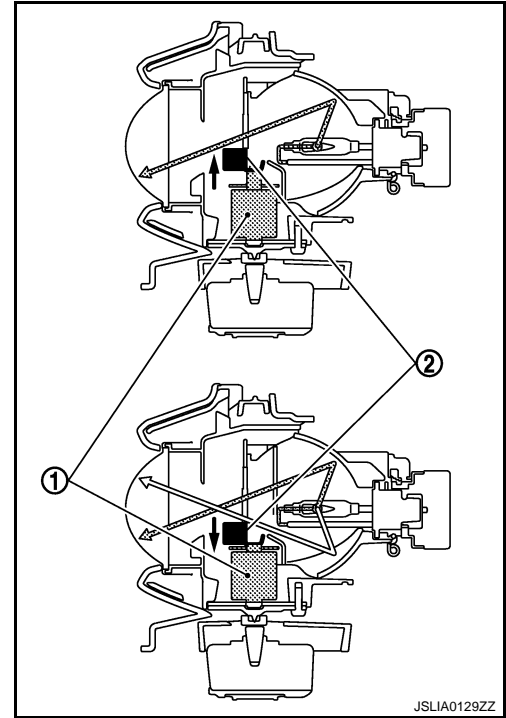
HEADLAMP (HI) CIRCUIT

Description

INFOID:000000005631841

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 (2) is switched to the high beam position.
- 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:000000005631842

1. CHECK HEADLAMP (HI) OPERATION

⊗ IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-9, "Diagnosis Description"](#).
2. Check that the headlamp switches to the high beam.

Ⓟ CONSULT-III 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-78, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005631843

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

Ⓟ CONSULT-III 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

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

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

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

3. CHECK HEADLAMP (HI) FUSE

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

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

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4. CHECK FRONT COMBINATION LAMP (HI) SHORT CIRCUIT

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
RH	E8		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.)

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

HEADLAMP (LO) CIRCUIT

Description

INFOID:000000005631844

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-82, "Description"](#).

Component Function Check

INFOID:000000005631845

1. CHECK HEADLAMP (LO) OPERATION

⊗ IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-9, "Diagnosis Description"](#).
2. Check that the headlamp is turned ON.

Ⓟ CONSULT-III 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-80, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005631846

1. CHECK HEADLAMP (LO) OUTPUT VOLTAGE

Ⓟ CONSULT-III 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
		84			Off	0 V
LH	E8		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	83	Not existed
LH		84	

Does continuity exist?

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

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

5. CHECK HEADLAMP GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Perform the xenon headlamp diagnosis. Refer to [EXL-82, "Description"](#).

NO >> Repair the harnesses or connectors.

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XENON HEADLAMP

Description

INFOID:000000005631847

OUTLINE

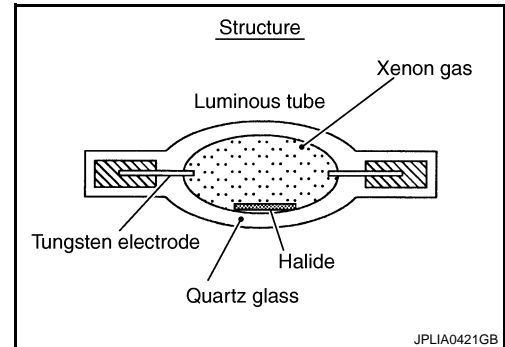
- The lamp light source is by the arch discharge by applying high voltage into the xenon gas-filled bulb instead of the halogen bulb filament.
- Sight becomes more natural and brighter because the amount of light are gained adequately and the color of light is sunshine-like white.
- The xenon bulb drops 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.**
- **When water infiltrated by the damage of the headlamp housing in the lamp inside, and then water is stuck in the HID control unit connector part, HID control unit detect a power supply short circuit and stop the headlamp function. therefore inspect outside of headlamp for cracks, serious damage or install the resin cap and the bulb socket securely.**

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:000000005631848

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.

XENON HEADLAMP

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

2.CHECK INSIDE OF XENON HEADLAMP HOUSING

Check the inside of applicable headlamp (upper surface of HID control unit) for exist the water or trace of the water intrusion.

Are there trace of the water intrusion in the headlamp?

YES >> GO TO 3.

NO >> When headlamp control system is normal, Replace the front combination lamp assembly.

3.CHECK OUTSIDE OF XENON HEADLAMP HOUSING

Check the outside of applicable headlamp for cracks, serious damage or install the resin cap and the bulb socket securely.

Is the outside of headlamp housing abnormality?

YES >> Replace the front combination lamp assembly.

NO >> Dry water fully and then check that the lighting switch is turned ON. Refer to [EXL-115. "Inspection After Installation"](#).

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FRONT FOG LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

FRONT FOG LAMP CIRCUIT

Component Function Check

INFOID:000000005631852

1.CHECK FRONT FOG LAMP OPERATION

⊗IPDM E/R AUTO ACTIVE TEST

1. Activate IPDM E/R auto active test. Refer to [PCS-9, "Diagnosis Description"](#).
2. Check that the front fog lamp is turned ON.

ⓅCONSULT-III ACTIVE TEST

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

Fog : Front fog lamp ON
Off : Front fog lamp OFF

Is the front fog lamp turned ON?

- YES >> Front fog lamp circuit is normal.
NO >> Refer to [EXL-84, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005631853

1.CHECK FRONT FOG LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Front fog lamp	IPDM E/R	#58	15 A

Is the fuse fusing?

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

2.CHECK FRONT FOG 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	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 FRONT FOG LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

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

4.CHECK FRONT FOG LAMP OUTPUT VOLTAGE

ⓅCONSULT-III 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.

FRONT FOG 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	Battery voltage
Connector	Terminal			
RH	E8	86	Fog	0 V
LH		87	Fog	0 V
			Off	Battery voltage
			Off	0 V

Is the measurement value normal?

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

5. CHECK FRONT FOG 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	E8	E28	1	Existed
LH		E58	1	

Does continuity exist?

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

6. CHECK FRONT FOG LAMP GROUND CIRCUIT OPEN CIRCUIT

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

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

Does continuity exist?

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

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EXL

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

PARKING LAMP CIRCUIT

Component Function Check

INFOID:000000005631854

1.CHECK PARKING LAMP OPERATION

⊗IPDM E/R AUTO ACTIVE TEST

1. Activate IPDM E/R auto active test. Refer to [PCS-9, "Diagnosis Description"](#).
2. Check that the parking lamp is turned ON.

ⓅCONSULT-III 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-86, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005631855

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-III 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.

PARKING LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

- 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	E9	91	TAIL	0 V
LH		92	TAIL	0 V
			Off	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

- 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	E9	E28	8	Existed
LH		92	E58	

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	Ground	Existed
LH	E58	4		

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

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TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

TURN SIGNAL LAMP CIRCUIT

Description

INFOID:000000005631856

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:000000005631857

1. CHECK TURN SIGNAL LAMP

ⓈCONSULT-III ACTIVE TEST

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

LH : Turn signal lamp LH blinking
RH : Turn signal lamp RH blinking
Off : The turn signal lamp OFF

Does the turn signal lamp blink?

- YES >> Turn signal lamp circuit is normal.
NO >> Refer to [EXL-88, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005631858

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-III ACTIVE TEST

1. Turn the ignition switch OFF.
2. Disconnect the front combination 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.

TURN SIGNAL LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

Terminals			Test item	Voltage (Approx.)
(+)	(-)			
BCM			FLASHER	Voltage (Approx.)
Connector	Terminal			
RH	M120	20	RH	
		Ground	Off	0 V
LH	M120	25	LH	
		Ground	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 or the rear combination lamp harness connector.

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TURN SIGNAL LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

Front combination lamp

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

Rear combination 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

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

Rear

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

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 5.

5. CHECK TURN SIGNAL LAMP GROUND OPEN CIRCUIT

Check the voltage between the BCM harness connector and the front combination lamp or the rear combination lamp and the ground.

Front combination lamp

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

Rear combination lamp

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

Does continuity exist?

YES >> Replace the front combination lamp or the rear combination lamp.

NO >> Repair the harnesses or connectors.

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

OPTICAL SENSOR

Description

INFOID:0000000005631859

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

Component Function Check

INFOID:0000000005631860

1.CHECK OPTICAL SENSOR SIGNAL BY CONSULT-III

CONSULT-III DATA MONITOR

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

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

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

Is the item status normal?

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

Diagnosis Procedure

INFOID:0000000005631861

1.CHECK OPTICAL SENSOR POWER SUPPLY INPUT

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

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

Is the measurement value normal?

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

2.CHECK OPTICAL SENSOR GROUND INPUT

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

Terminals		Voltage (Approx.)
(+)	(-)	
Optical sensor		Ground
Connector	Terminal	
M94	3	

Is the measurement value normal?

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

OPTICAL SENSOR

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK OPTICAL SENSOR SIGNAL OUTPUT

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

Terminals		Condition	Voltage (Approx.)	
(+)	(-)			
Optical sensor		Optical sensor		
Connector	Terminal			
M94	2	Ground	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

OPTICAL SENSOR

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

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

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

Does continuity exist?

YES >> GO TO 8.

NO >> Repair the harnesses or connectors.

8. CHECK OPTICAL SENSOR SHORT CIRCUIT

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

Optical sensor		Ground	Continuity
Connector	Terminal		
M94	2		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

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EXL

HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

HAZARD SWITCH

Description

INFOID:000000005631862

Hazard switch is integrated in the multifunction switch. Hazard switch inputs the signals to BCM when pressing the switch.

Component Function Check

INFOID:000000005631863

1. CHECK HAZARD SWITCH SIGNAL BY CONSULT-III

CONSULT-III DATA MONITOR

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

Monitor item	Condition		Monitor status
HAZARD SW	Hazard switch	While pressing the switch	On
		While not pressing the switch	Off

Is the item status normal?

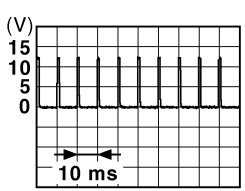
- YES >> Hazard switch circuit is normal.
 NO >> Refer to [EXL-94, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005631864

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	While pressing the switch	
		Ground	

JPMIA0012GB

Is the measurement value normal?

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

2. CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

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

HAZARD SWITCH

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

Multifunction switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M72	16	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 multifunction switch harness connector and the ground.

Multifunction switch		Ground	Continuity
Connector	Terminal		
M72	16		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 multifunction switch harness connector and the ground.

Multifunction switch		Ground	Continuity
Connector	Terminal		
M72	9		Existed

Does continuity exist?

YES >> Replace the hazard switch (multifunction switch).

NO >> Repair the harnesses or connectors.

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TAIL LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

TAIL LAMP CIRCUIT

Component Function Check

INFOID:000000005631865

1. CHECK TAIL LAMP OPERATION

⊗ IPDM E/R AUTO ACTIVE TEST

1. Activate IPDM E/R auto active test. Refer to [PCS-9, "Diagnosis Description"](#).
2. Check that the tail lamp is turned ON.

Ⓟ CONSULT-III 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-96, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005631866

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-III 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	
		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	2	Existed
LH			B60	2	

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TAIL LAMP GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Replace the rear combination lamp.

NO >> Repair the harnesses or connectors.

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LICENSE PLATE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

LICENSE PLATE LAMP CIRCUIT

Component Function Check

INFOID:000000005631867

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-9, "Diagnosis Description"](#).
2. Check that the license plate lamp is turned ON.

Ⓟ CONSULT-III 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-98, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005631868

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	B93	1	Existed
LH		B92	1	

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	B93	2	Existed	
LH	B92	2		

Does continuity exist?

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

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000005631891

CAUTION:

Perform the self-diagnosis with CONSULT-III 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-78 .
	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.)		<ul style="list-style-type: none"> • Combination meter • Unified meter and A/C amp. 	<ul style="list-style-type: none"> • Unified meter and A/C amp. 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-77 .
		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-80 .
	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-77 .
	<ul style="list-style-type: none"> • Optical sensor • Harness between the optical sensor and BCM • BCM 		Optical sensor Refer to EXL-91 .

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EXL

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

Symptom		Possible cause	Inspection item
Front fog lamp is not turned ON.	One side	<ul style="list-style-type: none"> • Front fog lamp bulb • Harness between IPDM E/R and the front combination lamp • Front combination lamp • IPDM E/R 	Front fog lamp circuit Refer to EXL-84 .
	Both side	Symptom diagnosis "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-105 .	
Front fog lamp indicator is not turned ON. (Front fog lamp is turned ON.)		Combination meter	<ul style="list-style-type: none"> • Combination meter Data monitor "HI-BEAM IND" • BCM (HEAD LAMP) Active test "FR FOG LAMP"
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-86 .
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-96 .
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-98 .
Tail lamp and the 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-96 .
<ul style="list-style-type: none"> • Parking lamp, the tail lamp and the license plate lamp are not turned ON. • Parking lamp, the tail lamp and the 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-88 .
	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-77 .
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 - Unified meter and A/C amp. - BCM • Combination meter 	<ul style="list-style-type: none"> • Unified meter and A/C amp. 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"> • The combination meter power supply and the ground circuit • Combination meter 	Combination meter Power supply and the ground circuit Refer to MWI-48 .
<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-94 .

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

NORMAL OPERATING CONDITION

Description

INFOID:000000005631892

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:000000005631893

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

Diagnosis Procedure

INFOID:000000005631894

1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-77, "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-III 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-78](#).

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:000000005631895

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

Diagnosis Procedure

INFOID:000000005631896

1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-77, "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-III 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-80](#).

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 AND TAIL LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

Description

INFOID:000000005631897

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

Diagnosis Procedure

INFOID:000000005631898

1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-77, "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-III 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-96](#).

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description

INFOID:000000005631899

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

Diagnosis Procedure

INFOID:000000005631900

1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-77, "Symptom Table"](#).

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

 CONSULT-III DATA MONITOR

1. Select "FR FOG REQ" of IPDM E/R data monitor item.
2. With operating the front fog lamp switch, check the monitor status.

Monitor item	Condition	Monitor status	
FR FOG REQ	Front fog lamp switch (Lighting switch 2ND)	ON	On
		OFF	Off

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM.

3.FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to [EXL-84](#).

Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Description

INFOID:000000005631902

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 trunk room.)

NOTE:

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

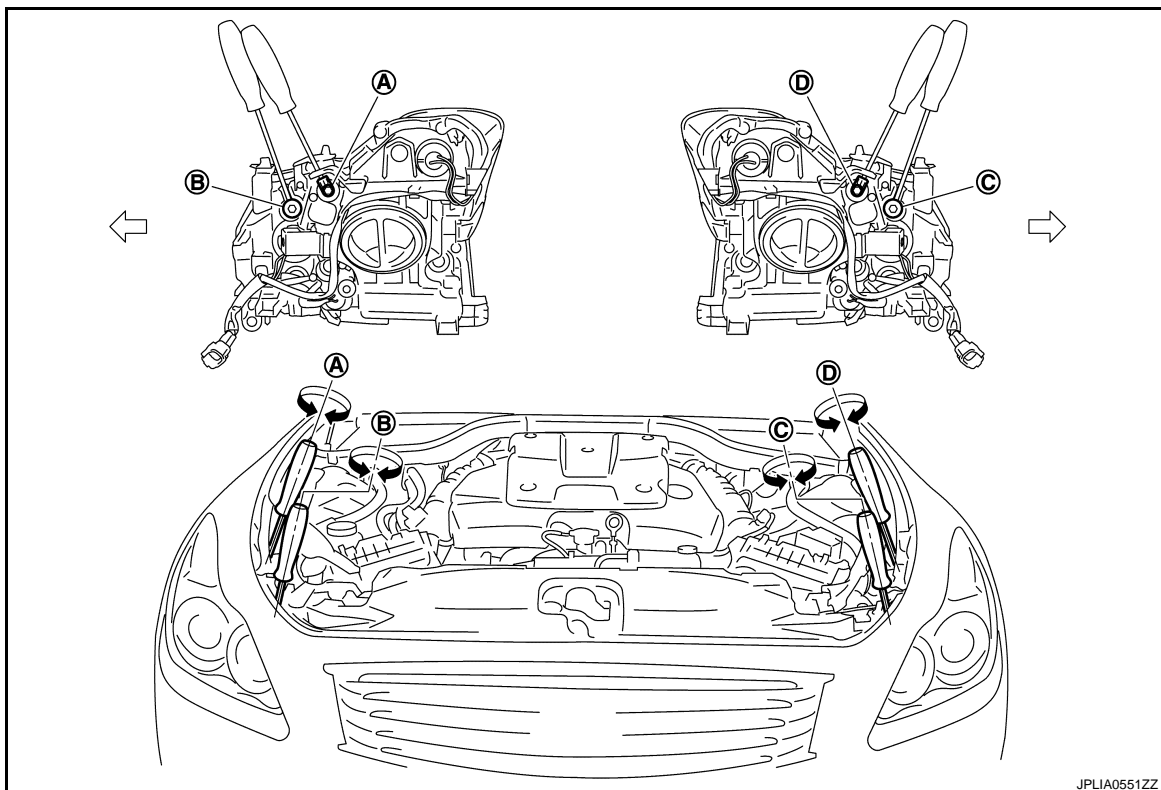
- Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

- Ride alone on the driver seat.

AIMING ADJUSTMENT SCREW



A Headlamp (RH) adjustment screw

B. Front fog lamp (RH) adjustment screw

C. Front fog lamp (LH) adjustment screw

D. Headlamp (LH) adjustment screw

↔: Vehicle center

NOTE:

The figure is the vehicle without AFS. Each adjustment screw is applied to the vehicle with AFS.

HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

With AFS

	Adjustment screw	Screw driver rotation	Facing direction
A	Headlamp (RH)	Clockwise	UP
		Counterclockwise	DOWN
B	Front fog lamp (RH)	Clockwise	DOWN
		Counterclockwise	UP
C	Front fog lamp (LH)	Clockwise	DOWN
		Counterclockwise	UP
D	Headlamp (LH)	Clockwise	UP
		Counterclockwise	DOWN

Without AFS

	Adjustment screw	Screw driver rotation	Facing direction
A	Headlamp (RH)	Clockwise	DOWN
		Counterclockwise	UP
B	Front fog lamp (RH)	Clockwise	DOWN
		Counterclockwise	UP
C	Front fog lamp (LH)	Clockwise	DOWN
		Counterclockwise	UP
D	Headlamp (LH)	Clockwise	DOWN
		Counterclockwise	UP

Aiming Adjustment Procedure

INFOID:000000005631903

- 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.

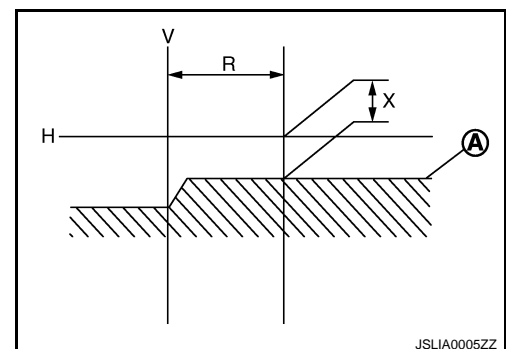
CAUTION:

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



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

HEADLAMP AIMING ADJUSTMENT

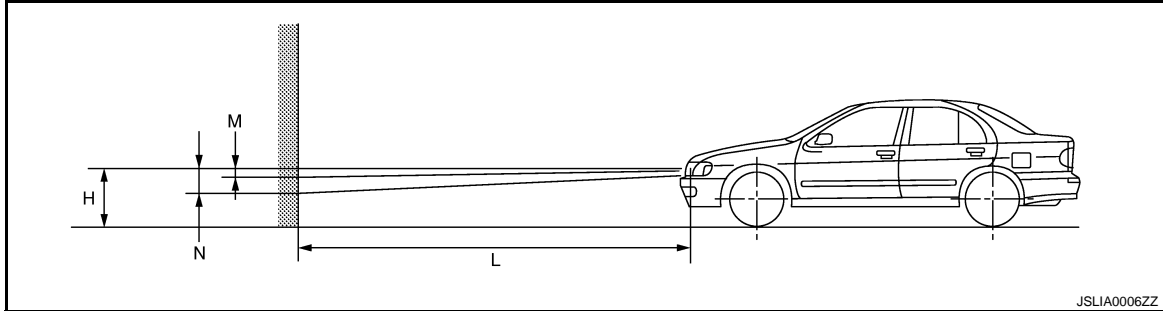
< PERIODIC MAINTENANCE >

[XENON TYPE]

unit: mm (in)

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

Side view



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

FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

FRONT FOG LAMP AIMING ADJUSTMENT

Description

INFOID:000000005631904

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 trunk room.)

NOTE:

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

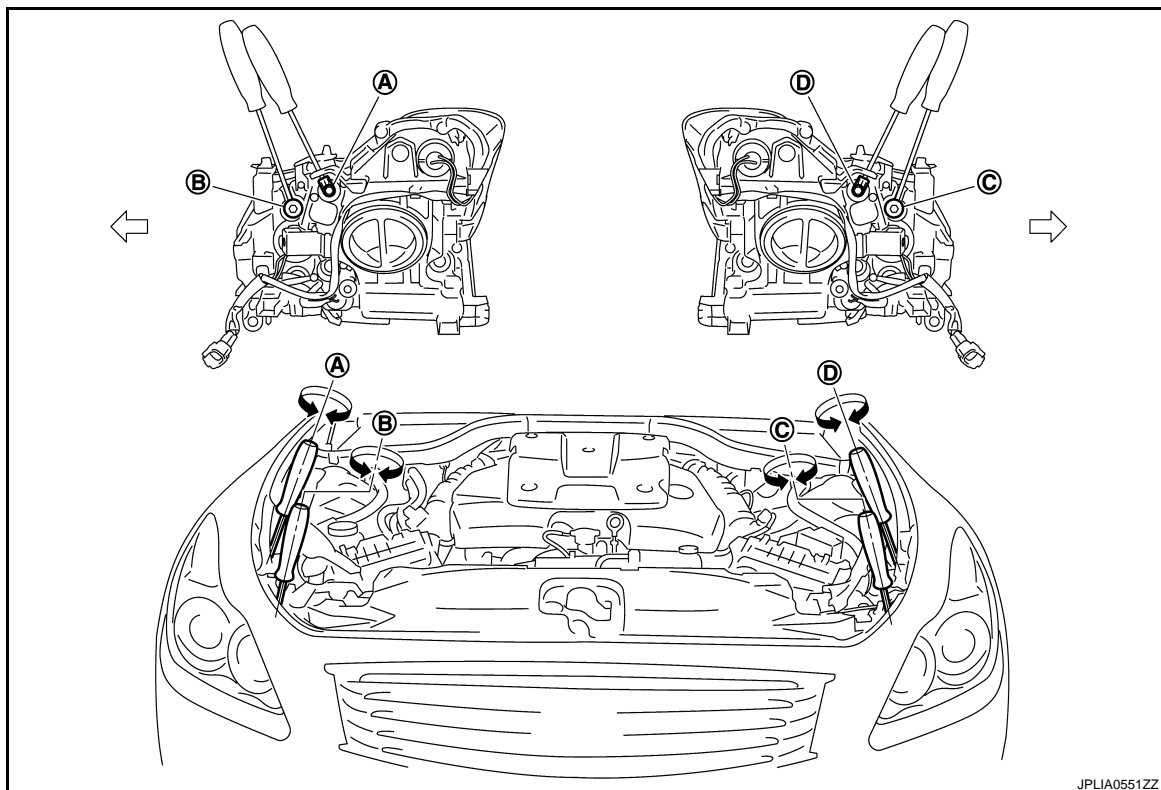
- Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

- Ride alone on the driver seat.

AIMING ADJUSTMENT SCREW



A Headlamp (RH) adjustment screw

B. Front fog lamp (RH) adjustment screw

C. Front fog lamp (LH) adjustment screw

D. Headlamp (LH) adjustment screw

⇐: Vehicle center

NOTE:

The figure is the vehicle without AFS. Each adjustment screw is applied to the vehicle with AFS.

FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

With AFS

Adjustment screw		Screw driver rotation	Facing direction
A	Headlamp (RH)	Clockwise	UP
		Counterclockwise	DOWN
B	Front fog lamp (RH)	Clockwise	DOWN
		Counterclockwise	UP
C	Front fog lamp (LH)	Clockwise	DOWN
		Counterclockwise	UP
D	Headlamp (LH)	Clockwise	UP
		Counterclockwise	DOWN

Without AFS

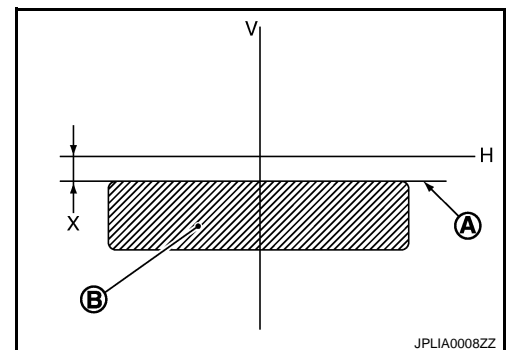
Adjustment screw		Screw driver rotation	Facing direction
A	Headlamp (RH)	Clockwise	DOWN
		Counterclockwise	UP
B	Front fog lamp (RH)	Clockwise	DOWN
		Counterclockwise	UP
C	Front fog lamp (LH)	Clockwise	DOWN
		Counterclockwise	UP
D	Headlamp (LH)	Clockwise	DOWN
		Counterclockwise	UP

Aiming Adjustment Procedure

INFOID:000000005631905

1. Place the screen.
 - NOTE:**
 - Stop the vehicle facing the wall.
 - Place the board on a plain road vertically.
2. Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the front fog lamp center and the screen.
3. Start the engine. Turn the front fog lamp ON.
 - NOTE:**
 - Shut off the headlamp light with the board to prevent from illuminating the adjustment screen.
 - CAUTION:**
 - Never cover the lens surface with a tape etc. The lens is made of resin.**
4. Adjust the cutoff line height (A) with the aiming adjustment screw so that the distance (X) between the horizontal center line of front fog lamp (H) and (A) becomes 200 mm (7.87 in).

Front fog lamp light distribution on the screen



- A : Cutoff line
- B : High illuminance area
- H : Horizontal center line of front fog lamp

FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

- V : Vertical center line of front fog lamp
- X : Cutoff line height

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FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

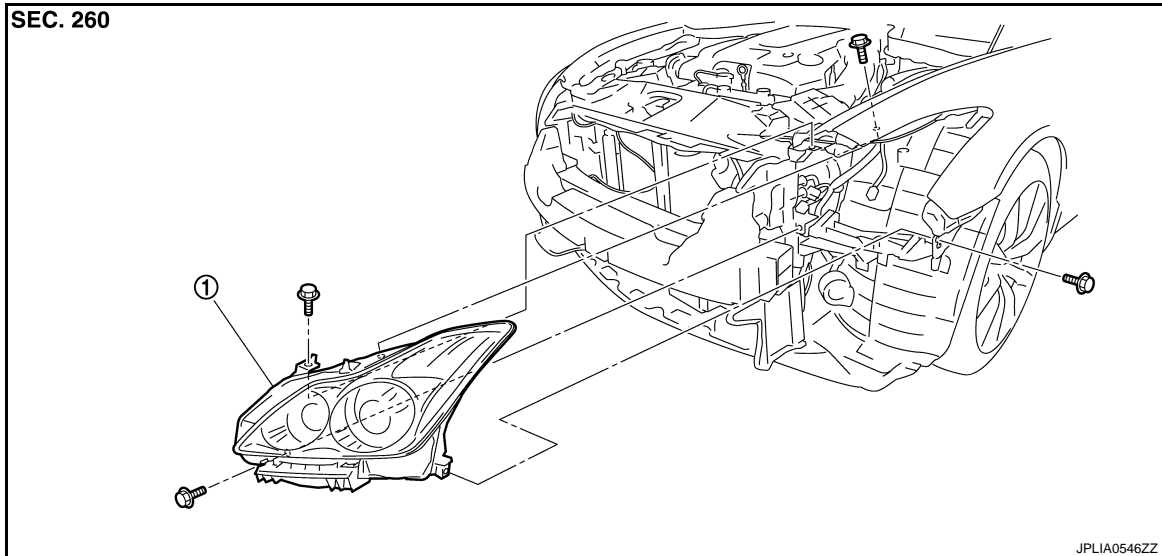
REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View

INFOID:000000005631906

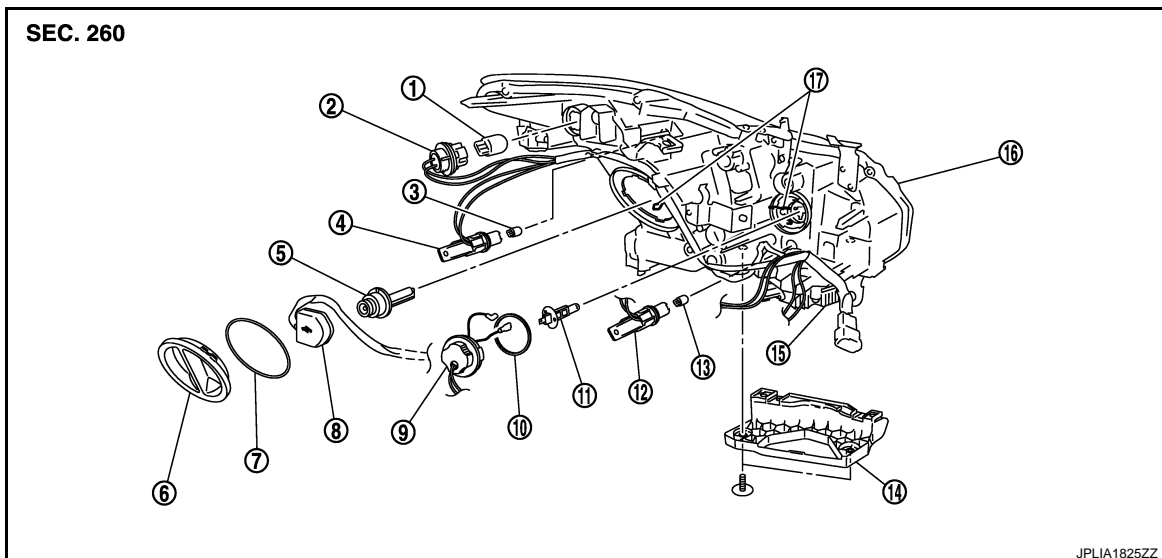
REMOVAL



1. Front combination lamp

DISASSEMBLY

Without AFS



- | | | |
|---------------------------------|---------------------------------------|------------------------------|
| 1. Front turn signal lamp bulb | 2. Front turn signal lamp bulb socket | 3. Side marker lamp bulb |
| 4. Side marker lamp bulb socket | 5. Xenon bulb | 6. Resin cap |
| 7. Seal packing | 8. Xenon bulb socket | 9. Resin cap |
| 10. Seal packing | 11. Front fog lamp bulb | 12. Parking lamp bulb socket |
| 13. Parking lamp bulb | 14. Seal packing | 15. Bumper bracket |
| 16. HID control unit | 17. Headlamp housing assembly | 18. Retaining spring |

CAUTION:

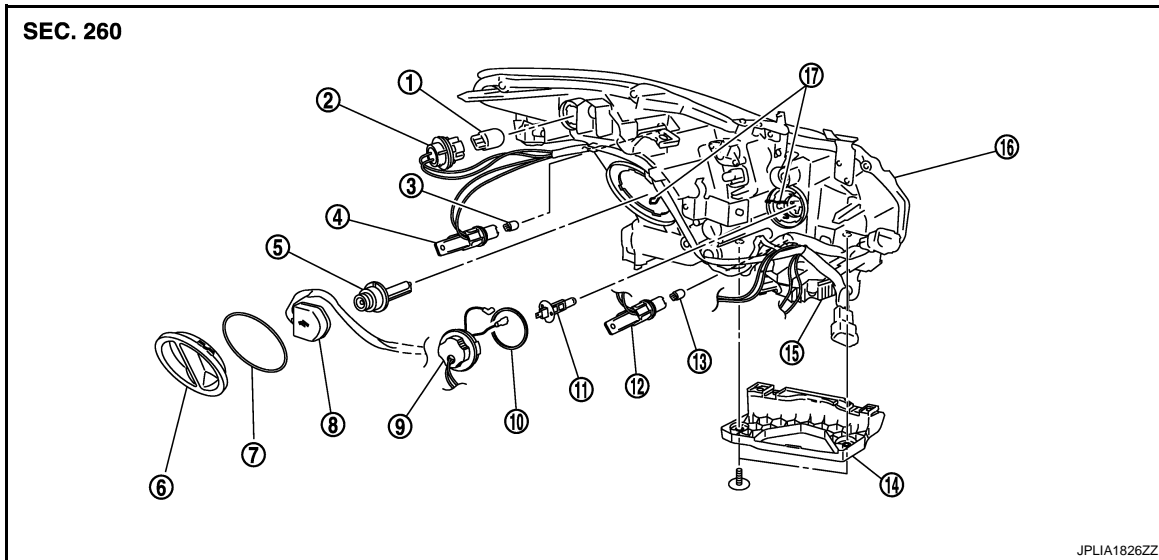
FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

HID control unit and xenon bulb socket cannot be disassembled.

With AFS



- | | | |
|---------------------------------|---------------------------------------|------------------------------|
| 1. Front turn signal lamp bulb | 2. Front turn signal lamp bulb socket | 3. Side marker lamp bulb |
| 4. Side marker lamp bulb socket | 5. Xenon bulb | 6. Resin cap |
| 7. Seal packing | 8. Xenon bulb socket | 9. Resin cap |
| 10. Seal packing | 11. Front fog lamp bulb | 12. Parking lamp bulb socket |
| 13. Parking lamp bulb | 14. Seal packing | 15. Bumper bracket |
| 16. HID control unit | 17. Headlamp housing assembly | 18. Retaining spring |

CAUTION:

HID control unit and xenon bulb socket cannot be disassembled.

Removal and Installation

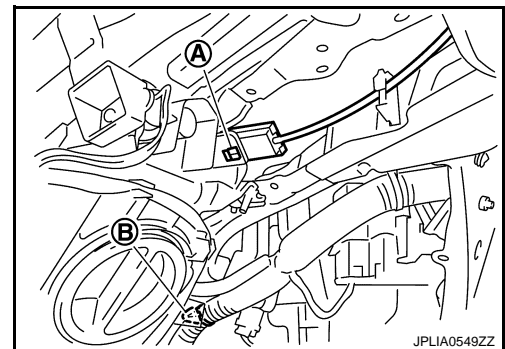
INFOID:000000005631907

REMOVAL

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

1. Remove the front bumper fascia. Refer to [EXT-12, "Exploded View"](#).
2. Remove the mounting bolts.
3. Remove the holding clip (A)* and the harness clip (B).
*: 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-106, "Description"](#).
- After installation, check that headlamp lighting. Refer to [EXL-115, "Inspection After Installation"](#).

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

Replacement

INFOID:000000005631908

CAUTION:

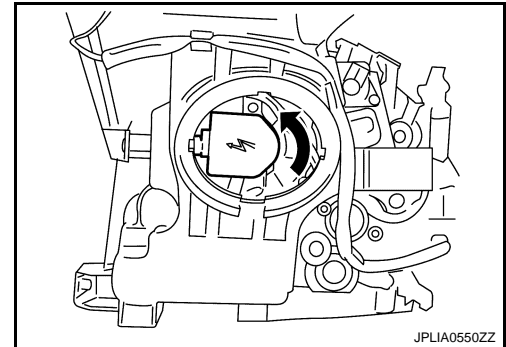
- Disconnect the battery negative terminal or remove the fuse.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is 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-24. "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 air cleaner case. Refer to [EM-27. "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

FRONT TURN SIGNAL LAMP BULB

1. Remove the fender protector. Keep a service area. Refer to [EXT-24. "FENDER PROTECTOR : Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

FRONT FOG LAMP BULB

1. Remove the air cleaner case. Refer to [EM-27. "Exploded View"](#).
2. Rotate the resin cap counterclockwise and unlock it.
3. Disconnect front fog lamp bulb terminals.
4. Remove the retaining spring lock. Remove the bulb.

SIDE MARKER LAMP BULB

1. Remove the fender protector. Keep a service area. Refer to [EXT-24. "FENDER PROTECTOR : Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

Disassembly and Assembly

INFOID:000000005631909

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. Rotate the parking lamp bulb socket counterclockwise and unlock it.

FRONT COMBINATION LAMP

[XENON TYPE]

< REMOVAL AND INSTALLATION >

6. Remove the bulb from the parking lamp bulb socket.
7. Rotate the front turn signal lamp bulb socket counterclockwise and unlock it.
8. Remove the bulb from the front turn signal lamp bulb socket.
9. Rotate the side marker lamp bulb socket counterclockwise and unlock it.
10. Remove the bulb from the side marker lamp bulb socket.
11. Rotate the resin cap counterclockwise and unlock it.
12. Disconnect front fog lamp bulb terminals.
13. Remove the retaining spring lock. Remove the bulb.

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.
- After installation, check that headlamp lighting. Refer to [EXL-115, "Inspection After Installation"](#).

Inspection After Installation

INFOID:000000005631910

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

Check the following item, when there is abnormality replace the xenon headlamp assembly.

1. Xenon bulb is cold condition (turn OFF more than 10 minutes), and repetition does headlamp turned ON/OFF, check that a headlamp illuminated it surely.
2. Headlamp is turn ON until the xenon bulb becomes stable condition (for about 5 minutes) from cold condition, check that there are not on and off light, abnormality such as blinking.
3. Xenon bulb is warm condition (turn ON more than 15 minutes and turn OFF for 1 minute), and repetition does headlamp turned ON/OFF, check that a headlamp illuminated it surely.
4. Headlamp is turn ON for about 30 minutes, check that there are not on and off light, abnormality such as blinking whether brightness of right and left does not have a difference.

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FRONT FOG LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

FRONT FOG LAMP

Exploded View

INFOID:000000005631911

The front fog lamp is integrated in the front combination lamp. Refer to [EXL-112. "Exploded View"](#).

OPTICAL SENSOR

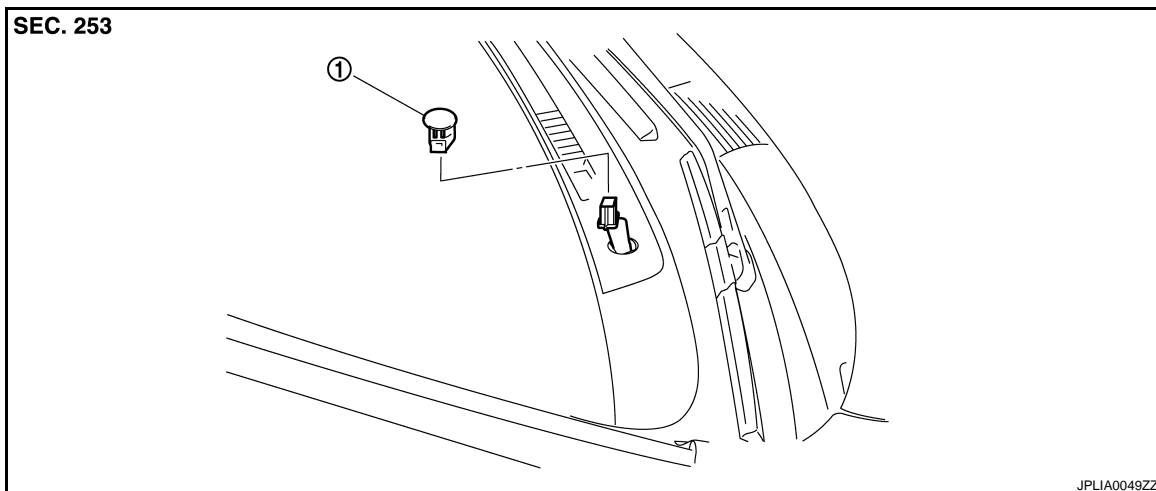
< REMOVAL AND INSTALLATION >

[XENON TYPE]

OPTICAL SENSOR

Exploded View

INFOID:000000005631912



1. Optical sensor

Removal and Installation

INFOID:000000005631913

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.

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LIGHTING & TURN SIGNAL SWITCH

< REMOVAL AND INSTALLATION >

[XENON TYPE]

LIGHTING & TURN SIGNAL SWITCH

Exploded View

INFOID:000000005631914

The lighting & turn signal switch is integrated in the combination switch. [BCS-80. "Exploded View"](#).

HAZARD SWITCH

< REMOVAL AND INSTALLATION >

[XENON TYPE]

HAZARD SWITCH

Exploded View

INFOID:000000005631915

The hazard switch is integrated in the multifunction switch. Refer to [AV-117, "Removal and Installation"](#).

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STEERING ANGLE SENSOR

[XENON TYPE]

< REMOVAL AND INSTALLATION >

STEERING ANGLE SENSOR

Removal and Installation

INFOID:000000005631918

Refer to [BRC-113, "Exploded View"](#).

REAR COMBINATION LAMP

[XENON TYPE]

< REMOVAL AND INSTALLATION >

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Seal packing cannot be reused.
- Securely install the grommet.

Replacement

INFOID:000000005631925

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.

HIGH-MOUNTED STOP LAMP

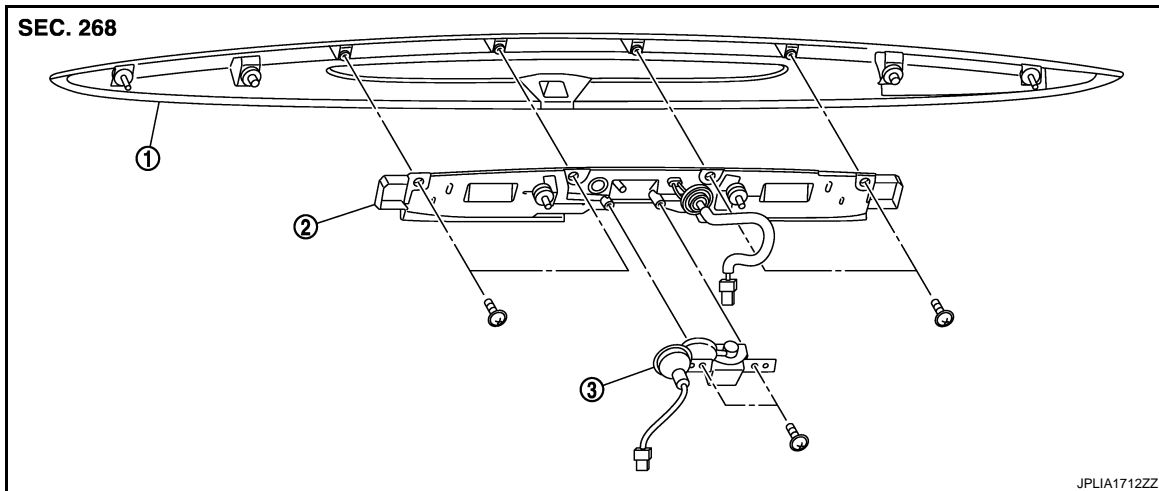
< REMOVAL AND INSTALLATION >

[XENON TYPE]

HIGH-MOUNTED STOP LAMP

Exploded View

INFOID:000000005631926



1. Rear trunk lid finisher outer

2. High-mounted stop lamp

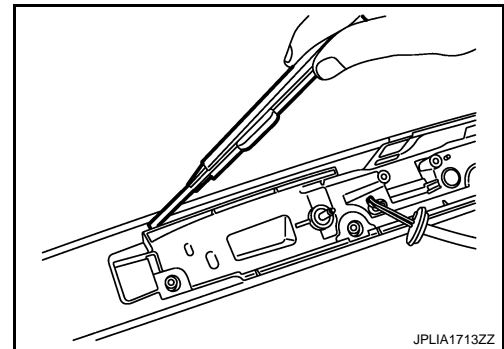
3. Rear view camera

Removal and Installation

INFOID:000000005631927

REMOVAL

1. Remove the trunk lid finisher outer. Refer to [EXT-36. "Exploded View"](#).
2. Remove the screws and remove the high-mounted stop lamp from trunk finisher.
3. Cut the two-sided tape by the any appropriate tool.



INSTALLATION

Install in the reverse order of removal.

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LICENSE PLATE LAMP

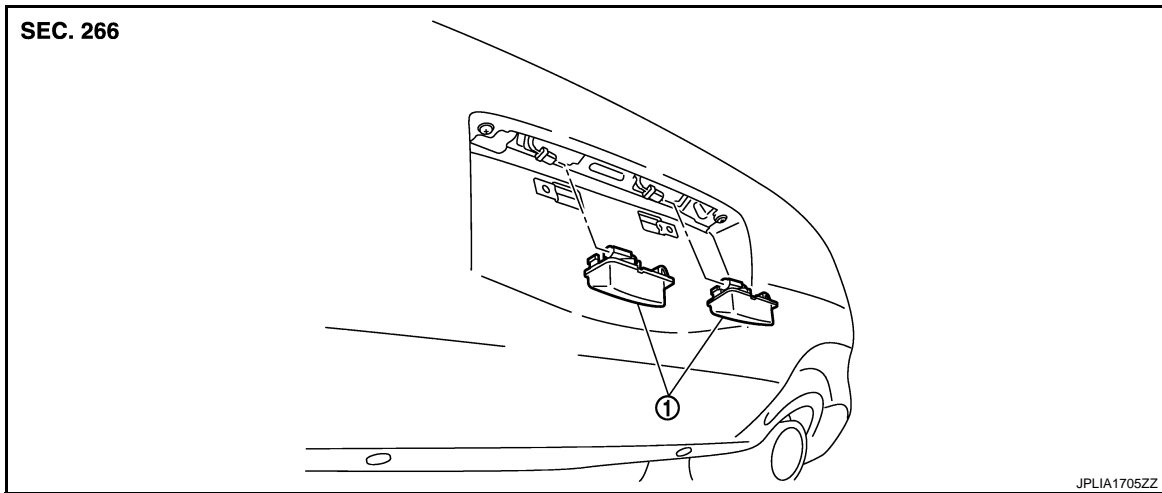
< REMOVAL AND INSTALLATION >

[XENON TYPE]

LICENSE PLATE LAMP

Exploded View

INFOID:000000005631928



1. License plate lamp

Removal and Installation

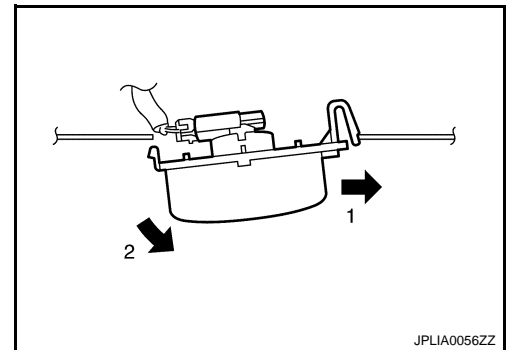
INFOID:000000005631929

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

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



INSTALLATION

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

Replacement

INFOID:000000005631930

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

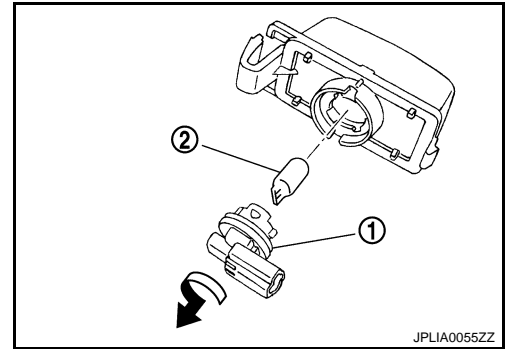
1. Remove license plate lamp.

LICENSE PLATE LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

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



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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:000000005631931

Item	Type	Wattage (W)	
Front combination lamp	Headlamp (HI/LO)	D2S (Xenon)	35
	Front turn signal lamp	WY21W (Amber)	21
	Parking lamp	W5W	5
	Front fog lamp	H1	55
	Front side marker lamp	W5W	5
Rear combination lamp	Stop lamp/Tail lamp	LED	—
	Rear turn signal lamp	W21W	21
	Rear side marker lamp	LED	—
	Back-up lamp	W16W	16
License plate lamp	W5W	5	
High-mounted stop lamp	LED	—	