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[XENON TYPE] < BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000004404096 В

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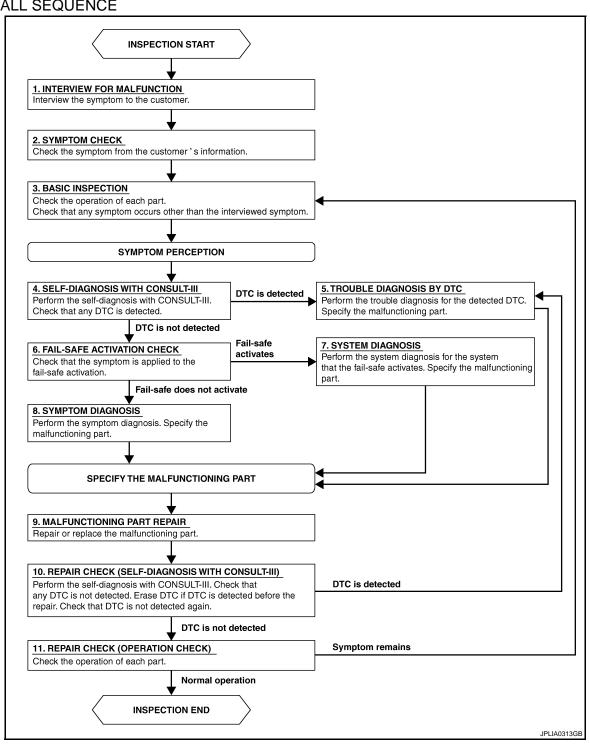
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OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > [XENON TYPE]

>> 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.

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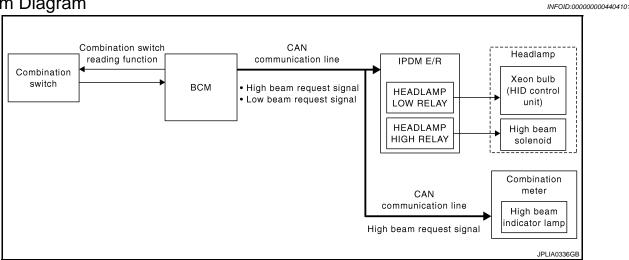
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SYSTEM DESCRIPTION

HEADLAMP SYSTEM

System Diagram



System Description

INFOID:0000000004404102

OUTLINE

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

HEADLAMP BASIC OPERATION

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

Headlamp ON condition

- Lighting switch 2ND
- Lighting switch PASS
- Lighting switch AUTO, and the auto light function ON judgment
- IPDM E/R turns the integrated headlamp low relay ON, and turns the headlamp ON according to the low beam request signal.

HEADLAMP HI/LO SWITCHING OPERATION

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

High beam switching condition

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

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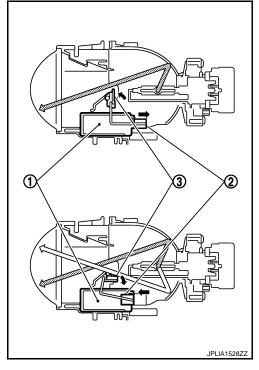
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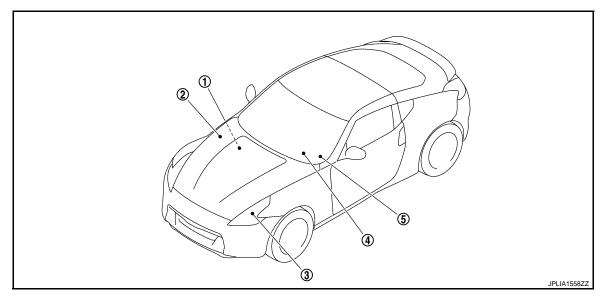
< SYSTEM DESCRIPTION >

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



Component Parts Location

INFOID:0000000004404103



- BCM
 Refer to BCS-8, "Component Parts
 Location".
- 4. Combination meter (High beam indicator lamp)
- IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 5. Combination switch
- 3. Headlamp

HEADLAMP SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

Component Description

INFOID:0000000004404104

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Р	art	Description
BCM		 Detects each switch condition by the combination switch reading function. Judges that the headlamp is turned ON according to the vehicle condition. Requests the headlamp relay (HI/LO) ON to IPDM E/R (with CAN communication). Requests the high beam indicator lamp ON to the combination meter (with CAN communication).
IPDM E/R		Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication).
Combination switch (Lighting & turn signal	al switch)	Refer to BCS-9, "System Diagram".
Combination meter (High beam indicator	lamp)	Turns the high beam indicator lamp ON according to the request from BCM (with CAN communication).
Headlamp assembly	HID control unit Xenon bulb	Refer to EXL-43, "Description".
	High beam solenoid	Refer to EXL-39, "Description".

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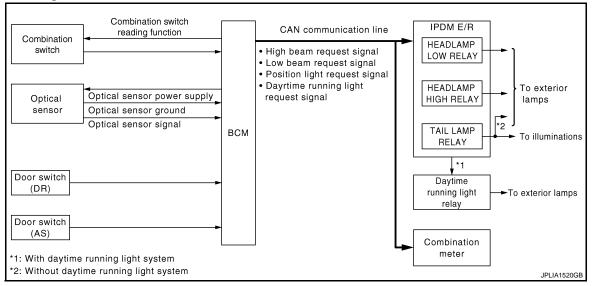
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AUTO LIGHT SYSTEM

System Diagram

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System Description

INFOID:0000000004404106

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 and tail lamp (Headlamp HI depend on the combination switch condition.)

AUTO LIGHT FUNCTION

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

NOTE:

ON/OFF timing differs based on the sensitivity from the setting. The setting can be set by CONSULT-III. Refer to EXL-26, "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 <u>EXL-26</u>, <u>"HEADLAMP : CONSULT-III Function (BCM HEAD LAMP)"</u>.

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.

Component Parts Location

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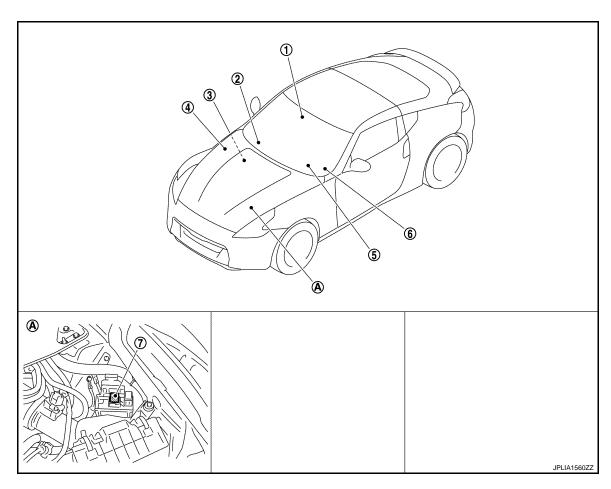
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1. Door switch

2. Optical sensor

BCM
 Refer to BCS-8, "Component Parts Location".

- 4. IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 7. Daytime running light relay
- A. Engine room (LH)

- . Combination meter
- 6. Combination switch

Component Description

Part	Description
BCM	 Detects each switch condition by the combination switch reading function. Judges the outside brightness from the optical sensor signal. Judges the OFF timing according to the vehicle condition. Judges the ON/OFF status of the exterior lamp and each illumination according to the outside brightness and the vehicle condition. Requests ON/OFF of each relay to IPDM E/R (with CAN communication).
IPDM E/R	Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication).

Revision: 2009 December EXL-11 2009 370Z

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AUTO LIGHT SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

Part	Description
Combination switch (Lighting & turn signal switch)	Refer to BCS-9, "System Diagram".
Optical sensor	Refer to EXL-55, "Description".

[XENON TYPE]

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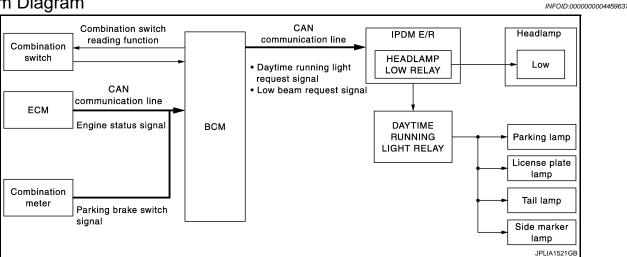
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DAYTIME RUNNING LIGHT SYSTEM

System Diagram



System Description

INFOID:0000000004459638

OUTLINE

- Turns the following exterior lamps ON as the daytime running light.
- Headlamp (LO)
- Parking, tail, license plate and side marker lamps.
- 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 vehicle condition depending on the following signals.
- Engine condition signal (received from ECM with CAN communication).
- Parking brake switch signal (received from combination meter with CAN communication)
- BCM transmits the daytime running light request signal and low beam 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.
- Lighting switch OFF
- IPDM E/R turns the integrated headlamp low relay and daytime running light relay ON according to the daytime running light request signal and low beam request signal. And it turns each lamps ON.

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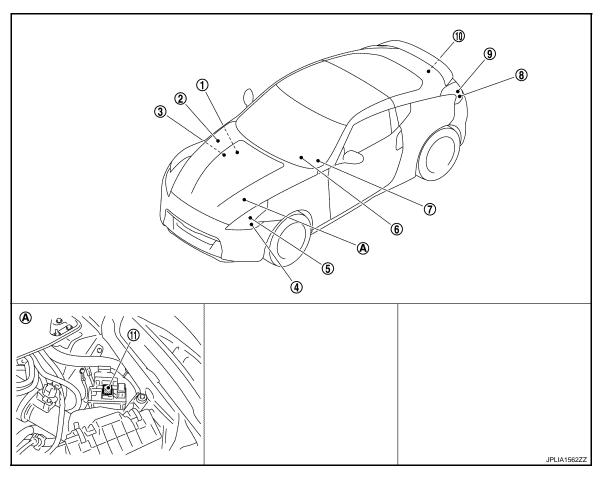
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Component Parts Location

INFOID:0000000004459639



- BCM
 Refer to <u>BCS-8</u>, "Component Parts
 Location".
- 4. Parking lamp
- 7. Combination switch
- 10. License plate lamp
- A. Engine room (LH)

- IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 5. Front side marker lamp
- 8. Rear side marker lamp
- 11. Daytime running light relay
- 3. ECM
 Refer to EC-26, "Component Parts
 Location".
- 6. Combination meter
- 9. Tail lamp

Component Description

INFOID:0000000004459640

Part	Description
ВСМ	 Detects each switch condition with the combination switch reading function. Judges each lamps ON/OFF condition according to the vehicle condition. Requests the each relay ON to IPDM E/R (with CAN communication).
IPDM E/R	Controls the integrated relay and supplies voltage to the load according to the request from BCM (with CAN communication).
Combination switch (Lighting & turn signal switch)	Refer to BCS-9, "System Diagram".
ECM	Transmits the engine status signal to BCM with CAN communication.
Combination meter	Transmits the parking brake switch signal to BCM with CAN communication.

[XENON TYPE]

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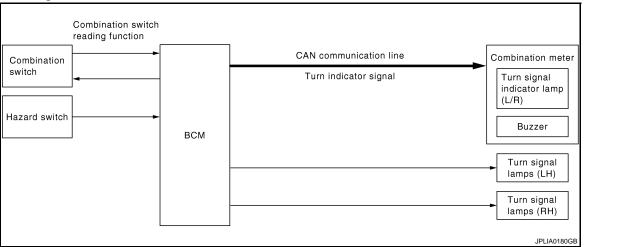
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

System Diagram



System Description

INFOID:0000000004404122

OUTLINE

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

TURN SIGNAL LAMP OPERATION

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

HAZARD WARNING LAMP OPERATION

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

TURN SIGNAL INDICATOR LAMP AND TURN SIGNAL SOUND OPERATION

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

HIGH FLASHER OPERATION (FAIL-SAFE)

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

NOTE:

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

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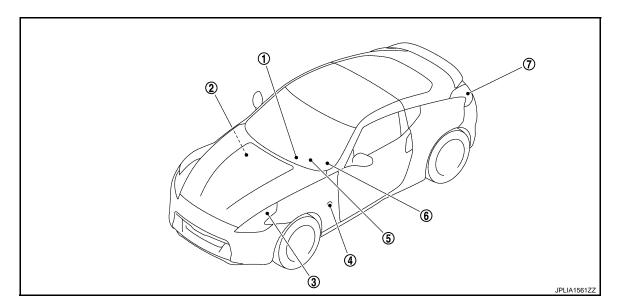
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EXL-15 Revision: 2009 December 2009 370Z

Component Parts Location

INFOID:0000000004404123



1. Hazard switch

- 2. BCM Refer to BCS-8, "Component Parts Location".
- Side turn signal lamp
- 5. Combination meter
- 3. Front turn signal lamp
- (Turn signal indicator lamp)
- 6. Combination switch

7. Rear turn signal lamp

Component Description

INFOID:0000000004404124

Part	Description
всм	 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-9, "System Diagram".
Hazard switch	Inputs the hazard switch ON/OFF signal to BCM.
Combination meter (Turn signal indicator lamp & buzzer)	Blinks the turn signal indicator lamp and outputs the turn signal operating sound with integrated buzzer according to the request from BCM (with CAN communication).

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM WITHOUT DAYTIME RUNNING LIGHT SYSTEM

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: System Diagram

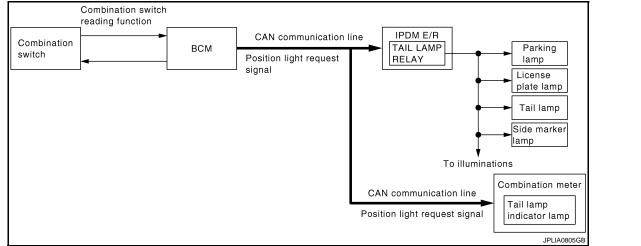
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WITHOUT DAYTIME RUNNING LIGHT SYSTEM: System Description

INFOID:0000000004459608

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.

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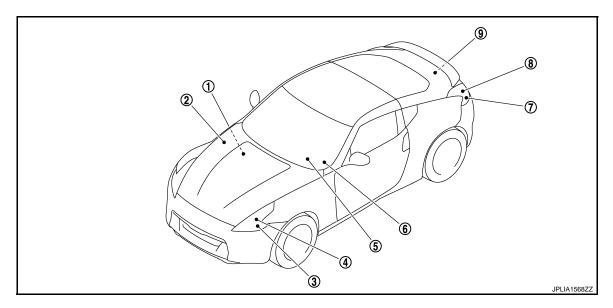
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WITHOUT DAYTIME RUNNING LIGHT SYSTEM : Component Parts Location

INFOID:0000000004459609



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

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

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Component Description

INFOID:0000000004459610

Part	Description
всм	 Detects each switch condition by the combination switch reading function. Judges the ON/OFF status of the parking, license plate, tail and side marker lamps according to the vehicle condition. Requests the tail lamp relay ON to IPDM E/R (with CAN communication). Requests the tail lamp indicator lamp ON to the combination meter (with CAN communication).
IPDM E/R	Controls the integrated relay and supplies voltage to the load according to the request from BCM (with CAN communication).
Combination switch (Lighting & turn signal switch)	Refer to BCS-9, "System Diagram".
Combination meter (Tail lamp indicator lamp)	Turns the tail lamp indicator lamp ON according to the request from BCM (with CAN communication).

WITH DAYTIME RUNNING LIGHT SYSTEM

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

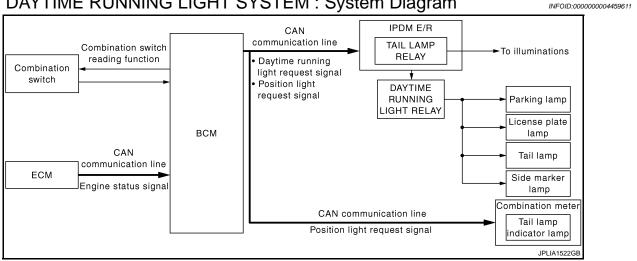
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WITH DAYTIME RUNNING LIGHT SYSTEM: System Diagram



WITH DAYTIME RUNNING LIGHT SYSTEM: System Description

INFOID:0000000004459612

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 daytime running light request signal or 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
- Daytime running light ON judgment
- IPDM E/R turns the daytime running light relay and tail lamp relay ON according to the daytime running light request signal or position light request signal. And turns the parking, license plate, tail, side marker lamps and illuminations ON.
- Combination meter turns the tail lamp indicator lamp ON according to the position light request signal.

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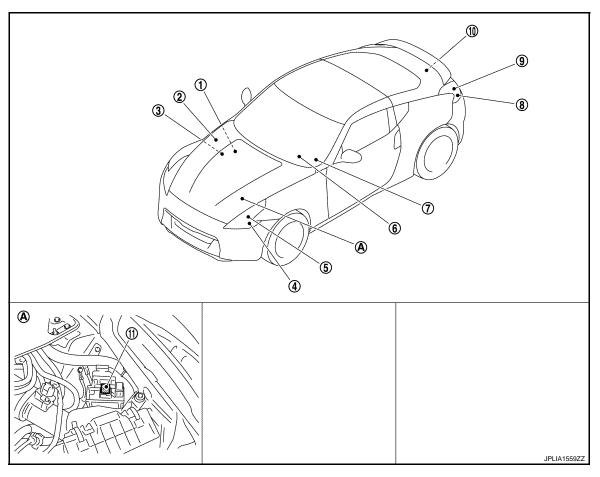
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WITH DAYTIME RUNNING LIGHT SYSTEM: Component Parts Location INFOID-000000004459613



- BCM
 Refer to BCS-8, "Component Parts
 Location".
- 4. Parking lamp
- 7. Combination switch
- 10. License plate lamp
- A. Engine room (LH)

- 2. IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 5. Front side marker lamp
- 8. Rear side marker lamp
- 11. Daytime running light relay
- 3. ECM
 Refer to EC-26, "Component Parts
 Location".
- Combination meter
 (Tail lamp indicator lamp)
- 9. Tail lamp

WITH DAYTIME RUNNING LIGHT SYSTEM: Component Description

INFOID:0000000004459614

Part	Description
BCM	 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 daytime running light relay and tail lamp relay ON to IPDM E/R (with CAN communication).
IPDM E/R	 Controls the daytime running light relay and supplies voltage to the load according to the request from BCM (with CAN communication). 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-9, "System Diagram".
Combination meter (Tail lamp indicator lamp)	Turns the tail lamp indicator lamp ON according to the request from BCM (with CAN communication).

[XENON TYPE]

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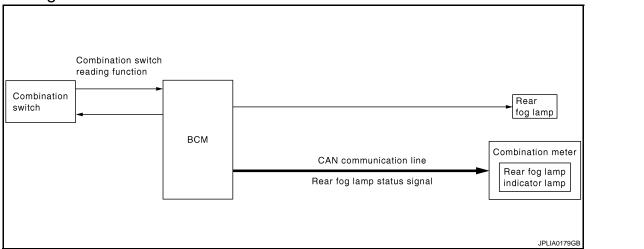
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REAR FOG LAMP SYSTEM

System Diagram



System Description

INFOID:0000000004459604

OUTLINE

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

REAR FOG LAMP OPERATION

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

Rear fog lamp ON condition

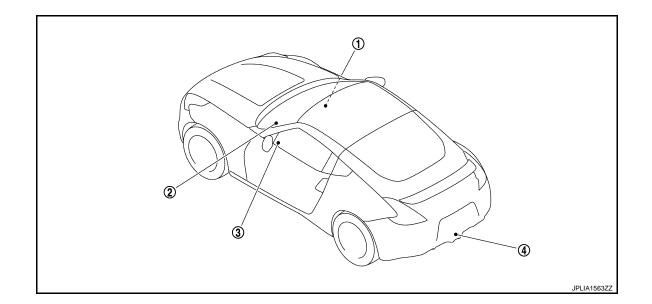
- When rear fog lamp switch signal is input (OFF → ON) with headlamp ON and rear fog lamp OFF

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

- When rear fog lamp switch signal is input (OFF \rightarrow ON) with rear fog lamp ON
- Headlamp OFF
- BCM transmits the rear fog lamp status signal to the combination meter with CAN communication.
- Combination meter turns the rear fog lamp indicator lamp ON according to the rear fog lamp status signal.

Component Parts Location

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REAR FOG LAMP SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

- BCM
 Refer to BCS-8, "Component Parts
 Location".
- 2. Combination meter (Rear fog lamp indicator lamp)
- 3. Combination switch

4. Rear fog lamp

Component Description

INFOID:0000000004459606

Part	Description
BCM	Detects each switch condition by the combination switch reading function. Judges that the rear fog lamp is turned ON according to the vehicle status. Supplies voltage to the rear fog lamp. Requests the rear fog lamp indicator lamp ON to the combination meter (with CAN communication).
Combination switch (Lighting & turn signal switch)	Refer to BCS-9, "System Diagram".
Combination meter (Rear fog lamp indicator lamp)	Turns the rear fog lamp indicator lamp ON according to the request from BCM (with CAN communication).

[XENON TYPE]

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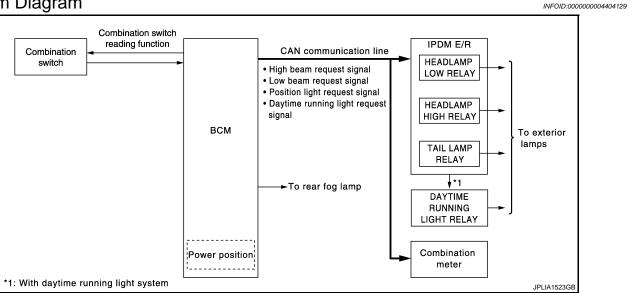
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EXTERIOR LAMP BATTERY SAVER SYSTEM

System Diagram



System Description

INFOID:0000000004404130

OUTLINE

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

Control by BCM

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

Control by IPDM E/R

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

NOTE:

When the lighting switch is turned AUTO, the exterior lamp battery saver switches to the auto light system. Refer to EXL-10. "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 \rightarrow OFF with the exterior lamps ON.

NOTE:

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

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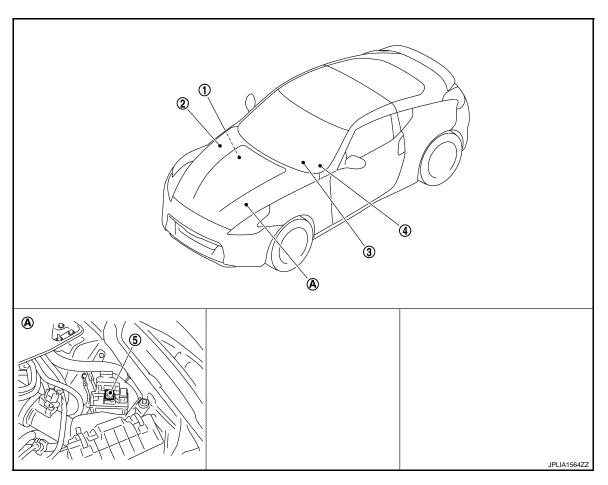
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Component Parts Location

INFOID:0000000004404131



- 1. BCM
 Refer to BCS-8, "Component Parts
 Location".
- 4. Combination switch
- A. Engine room (LH)
- IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- 5. Daytime running light relay

3. Combination meter

Component Description

INFOID:0000000004404132

Part	Description		
BCM	 Detects each switch condition by the combination switch reading function. Judges the exterior lamp OFF according to the vehicle condition. Requests each relay OFF to IPDM E/R (with CAN communication). Turn rear fog lamp OFF. 		
IPDM E/R	Controls the integrated relay according to the request from BCM (with CAN communication).		
Combination switch (Lighting & turn signal switch)	Refer to BCS-9, "System Diagram".		

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[XENON TYPE]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)

INFOID:0000000004704237

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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	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 		

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

				x: Applicable Iten
System	Sub system selection item	Diagnosis mode		
System	Sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
-	AIR CONDITONER*			
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	ВСМ	×		
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:

FREEZE FRAME DATA (FFD)

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

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

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (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"	
Vehicle Condition	OFF>ACC	Power position status of the moment a particular	While turning power supply position from "OFF" to "ACC"	
	ON>CRANK	DTC is detected	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 The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

HEADLAMP

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

INFOID:0000000004404134

[XENON TYPE]

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)

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Service item	Setting item	Setting		
	MODE 1*	45 sec.		
	MODE 2	Without the function		
	MODE 3	30 sec.		
ILL DELAY SET	MODE 4	60 sec.	Sets delay timer function timer operation time.	
ILL DELAY SET	MODE 5	90 sec.	(All doors closed)	
	MODE 6	120 sec.		
	MODE 7	150 sec.		
	MODE 8	180 sec.		
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 The value of the vehicle speed received from combination meter with CAN communication		
VEH SPEED 1 [km/h]			
KEY SW-SLOT [On/Off]	Key switch status input from key slot		
TURN SIGNAL R [On/Off]			
TURN SIGNAL L [On/Off]			
TAIL LAMP SW [On/Off]			
HI BEAM SW [On/Off]	Fack switch status that DCM indeed from the combination switch reading from the		
HEAD LAMP SW1 [On/Off]	Each switch status that BCM judges from the combination switch reading function		
HEAD LAMP SW2 [On/Off]			
PASSING SW [On/Off]			
AUTO LIGHT SW [On/Off]			
FR FOG SW [On/Off]	NOTE: The item is indicated, but not monitored.		
RR FOG SW [On/Off]	Each switch status that BCM judges from the combination switch reading function		
DOOR SW-DR [On/Off]	The switch status input from driver side door switch		
DOOR SW-AS [On/Off]	The switch status input from passenger side door switch		

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

ACTIVE TEST

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

FLASHER

FLASHER : CONSULT-III Function (BCM - FLASHER)

INFOID:0000000004404135

WORK SUPPORT

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

^{*:} Factory setting

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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Monitor item [Unit]	Description				
REQ SW-DR [On/Off]	The switch status input from the request switch (driver side)				
REQ SW-AS [On/Off]	The switch status input from the request switch (passenger side)				
PUSH SW [On/Off]	The switch status input from the push-button ignition switch				
TURN SIGNAL R [On/Off]	Each quitab condition that PCM judges from the combination quitab and line for a time				
TURN SIGNAL L [On/Off]	Each switch condition that BCM judges from the combination switch reading function				
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
	RH	Outputs the voltage to blink the right side turn signal lamps.
FLASHER	LH	Outputs the voltage to blink the left side turn signal lamps.
	Off	Stops the voltage to turn the turn signal lamps OFF.

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[XENON TYPE]

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000004704238

AUTO ACTIVE TEST

Description

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

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

Operation Procedure

 Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)

NOTE:

When auto active test is performed with hood opened, sprinkle water on windshield beforehand.

- 2. Turn the ignition switch OFF.
- Turn the ignition switch ON, and within 20 seconds, press the front door switch (driver side) 10 times. Then turn the ignition switch OFF.

CAUTION:

Close passenger door.

- 4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
- 5. The oil pressure warning lamp starts blinking when the auto active test starts.
- 6. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE:

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

- If auto active test mode cannot be actuated, check door switch system. Refer to <u>DLK-60</u>, "Component Function Check".
- Do not start the engine.

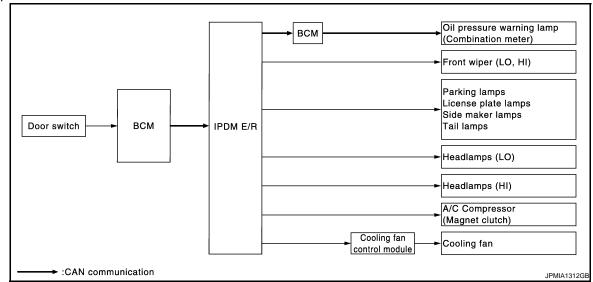
Inspection in Auto Active Test Mode

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

Operation sequence	Inspection location	Operation	
1	Oil pressure warning lamp	Blinks continuously during operation of auto active test	
2	Front wiper	LO for 5 seconds → HI for 5 seconds	
3	Parking lampsLicense plate lampsSide maker lampsTail lamps	10 seconds	
4	Headlamps	LO for 10 seconds → HI ON ⇔ OFF 5 times	
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times	
6 [*]	Cooling fan	MID for 5 seconds → HI for 5 seconds	

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

Concept of auto active test



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

Diagnosis chart in auto active test mode

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

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DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

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

CONSULT-III Function (IPDM E/R)

INFOID:0000000004704239

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 EXL-146, "DTC Index".

DATA MONITOR

Monitor item

Monitor Item [Unit]	MAIN SIG- NALS	Description
RAD FAN REQ [%]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.
FR FOG REQ [Off/On]	×	NOTE: The item is indicated, but not monitored.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper stop position signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

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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/INHI RLY [Off/ST ON/INHI ON/UNKWN]		Displays the status of the starter relay and starter control relay judged by IPDM E/R.
DETENT SW [Off/On]		Displays the status of the A/T shift selector (detention switch) judged by IPDM E/R.
S/L RLY -REQ [Off/On]		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]		Displays the status of the daytime running light request signal received from BCM via CAN communication. NOTE: This item is monitored only the vehicle with daytime running light system.
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	
	Off		
CORNERING LAMP	LH	NOTE: The item is indicated, but cannot be tested.	
	RH	The Rent le maioatea, sat cannot se totted.	
HORN	On	Operates horn relay 1 and horn relay 2 for 20 ms.	
	Off	OFF	
FRONT WIPER	Lo	Operates the front wiper relay.	
	Hi	Operates the front wiper relay and front wiper high relay.	

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

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1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Signal name	Fuse and fusible link No.
Battery power supply	К
battery power suppry	10

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connectors.
- Check voltage between BCM harness connector and ground.

(+)	(-)	Voltage (Approx.)
В	СМ		
Connector	Connector Terminal		
M118 1		Ground	Battery voltage
M119	11		Dattery Voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M119	13	-	Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) : Diagnosis Procedure

1. CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible links are not blown.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Signal name	Fuses and fusible link No.
	С
Battery power supply	50
	51

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check voltage between IPDM E/R harness connector and the ground.

(+)		(–)	Voltage (Approx.)
IPDM E/R			
Connector	Terminal	Ground	
E4	1		Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between IPDM E/R harness connectors and the ground.

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E5	12		Existed
E6	41		

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

EXTERIOR LAMP FUSE

WITHOUT DAYTIME RUNNING LIGHT SYSTEM

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Description

INFOID:0000000004404173

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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
Parking lampFront side marker lamp	IPDM E/R	#52	10 A
Tail lampRear side marker lampLicense plate lampEach 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

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure INFOID-00000004404174

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
Parking lampFront side marker lamp	IPDM E/R	#52	10 A
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.

WITH DAYTIME RUNNING LIGHT SYSTEM

WITH DAYTIME RUNNING LIGHT SYSTEM: Description

INFOID:0000000004459615

Fus<u>e list</u>

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

EXTERIOR LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Unit	Location	Fuse No.	Capacity
 Daytime running light relay Parking lamp Front side marker lamp Tail lamp Rear side marker lamp License plate lamp 	IPDM E/R	#59	10 A
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

WITH DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure

INFOID:0000000004459616

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
 Daytime running light relay Parking lamp Front side marker lamp Tail lamp Rear side marker lamp License plate lamp 	IPDM E/R	#59	10 A
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.

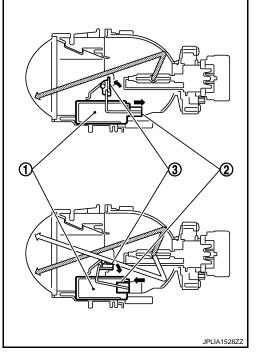
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HEADLAMP (HI) CIRCUIT

Description INFOID:0000000004404175

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

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



Component Function Check

1. CHECK HEADLAMP (HI) OPERATION

RIPDM E/R AUTO ACTIVE TEST

- Start IPDM E/R auto active test. Refer to EXL-30. "Diagnosis Description".
- Check that the headlamp switches to the high beam.

(P)CONSULT-III ACTIVE TEST

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

Ηi : Headlamp switches to the high beam.

Off : Headlamp OFF

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.

>> Refer to EXL-39, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

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

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INFOID:0000000004404177

	Terminals		Test item				
	(+) IPDM E/R		(+)		(-)	iesi ileiii	Voltage
				EXTERNAL	(Approx.)		
Conr	nector	Terminal	LAMPS				
RH	E8	89		Hi	Battery voltage		
IXI I				Off	0 V		
LH	LO	90			Hi	Battery voltage	
		30		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.
- Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

	IPDI	/I E/R	Front combination lamp		Continuity
Con	nector	Terminal	Connector Terminal		Continuity
RH	E8	89	E28	7	Existed
LH	LO	90	E58	7	LAISIEU

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

3.CHECK HEADLAMP (HI) FUSE

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

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

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4. CHECK FRONT COMBINATION LAMP (HI) SHORT CIRCUIT

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

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

Does continuity exist?

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

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

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

INFOID:0000000004404179

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HEADLAMP (LO) CIRCUIT

Description INFOID:000000004404178

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-43, "Description".

Component Function Check

1. CHECK HEADLAMP (LO) OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 1. Start IPDM E/R auto active test. Refer to EXL-30, "Diagnosis Description".
- Check that the headlamp is turned ON.
- (P)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-41, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK HEADLAMP (LO) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- 1. Turn the ignition switch OFF.
- Disconnect the front combination lamp connector.
- 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		
(+)		(+)		163t Item	Voltage	
	IPDM	E/R		EXTERNAL	(Approx.)	
Conr	nector	Terminal		LAMPS		
RH			83	Ground	Lo	Battery voltage
IXII	E8		Ground	Off	0 V	
LH	84			Lo	Battery voltage	
LII		04		Off	0 V	

Is the measurement value normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK HEADLAMP (LO) OPEN CIRCUIT

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

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HEADLAMP (LO) CIRCUIT

[XENON TYPE]

	IPDN	/I E/R	Front combination lamp		Continuity
Con	nector	Terminal	Connector Terminal		Continuity
RH	E8	83	E28	5	Existed
LH	LO	84	E58	5	LAISIEU

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

3.CHECK HEADLAMP (LO) FUSE

1. Turn the ignition switch OFF.

2. Check that the following fuses are not fusing.

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

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4. CHECK HEADLAMP (LO) SHORT CIRCUIT

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

IPDM E/R				Continuity	
Connector Terminal		Ground	Continuity		
RH	E8	83	Glound	Not existed	
LH	LO	84		Not existed	

Does continuity exist?

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

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

5. CHECK HEADLAMP GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Perform the xenon headlamp diagnosis. Refer to <u>EXL-43</u>, "<u>Description</u>".

NO >> Repair the harnesses or connectors.

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XENON HEADLAMP

Description INFOID:000000004404181

OUTLINE

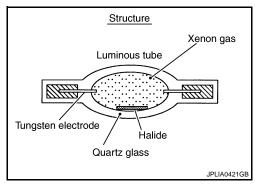
- The lamp light source is by the arch discharge by applying high voltage into the xenon gas-filled bulb instead
 of the halogen bulb filament.
- Sight becomes more natural and brighter because the amount of light are gained adequately and the color of light is sunshine-like white.
- The xenon bulb drops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

ILLUMINATION PRINCIPLE

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

NOTE:

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



PRECAUTIONS FOR TROUBLE DIAGNOSIS

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

WARNING.

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

CAUTION:

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

NOTE:

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

Diagnosis Procedure

1. CHECK XENON BULB

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

Is the headlamp turned ON?

YES >> Replace the xenon bulb.

NO >> GO TO 2.

2.CHECK HID CONTROL UNIT

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

Is the headlamp turned ON?

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INFOID:0000000004404182

XENON HEADLAMP

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

YES >> Replace HID control unit.

NO >> GO TO 3.

3.CHECK XENON HEADLAMP HOUSING ASSEMBLY

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

Is the headlamp turned ON?

YES >> Replace the front combination lamp. (Xenon headlamp housing voltage converter malfunctions.)

NO >> Xenon headlamp is normal. Check the headlamp control system.

DAYTIME RUNNING LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

DAYTIME RUNNING LIGHT RELAY CIRCUIT

Component Function Check

INFOID:0000000004459617

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

PIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to EXL-30, "Diagnosis Description".
- Check that the parking lamp and tail lamp are turned ON.

PCONSULT-III ACTIVE TEST

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

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TAIL : Parking lamp and tail lamp ON

Off : Parking lamp and tail lamp OFF

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Are parking lamp and tail lamp turned ON?

>> Daytime running light relay circuit is normal. >> Refer to EXL-45, "Diagnosis Procedure". NO

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INFOID:0000000004459618

Diagnosis Procedure

1. CHECK DAYTIME RUNNING LIGHT RELAY FUSE

Check that the following fuse is not fusing.

Unit	Location	Fuse No.	Capacity
Daytime running light relay	IPDM E/R	#59	10 A

Is the fuse fusing?

YES >> Replace the fuse after repairing the applicable circuit.

NO >> GO TO 2.

2.CHECK DAYTIME RUNNING LIGHT RELAY POWER SUPPLY

Remove the daytime running light relay.

Check voltage between the daytime running light relay harness connector and the ground. 2.

'				
(+)	(-)	Voltage	
Daytime runr	ning light relay	Ground	(Approx.)	
Connector	Terminal			
E13	1		Pottonyvoltogo	
213	3		Battery voltage	

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Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harnesses or connectors.

$oldsymbol{3}.$ CHECK DAYTIME RUNNING LIGHT RELAY

Check the daytime running light relay. Refer to EXL-46, "Component Inspection".

Is the daytime running light relay normal?

YES >> GO TO 4.

NO >> Replace the daytime running light relay.

$oldsymbol{4}.$ CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL OUTPUT

(P)CONSULT-III ACTIVE TEST

- Turn the ignition switch OFF.
- Install the daytime running light relay.

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DAYTIME RUNNING LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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

-	Terminals		Test item		
(+)		(-)	iest item	Voltage	
IPDM E/R			EXTERNAL	(Approx.)	
Connector	Terminal	al Ground	LAMPS		
E9	105	Giodila	TAIL	0 V	
⊏9			Off	Battery voltage	

Is the measurement value normal?

YES >> Check the parking lamp circuit. Refer to <u>EXL-50</u>, "WITH DAYTIME RUNNING LIGHT SYSTEM: <u>Diagnosis Procedure"</u>.

Fixed at 0 V >> GO TO 5.

Fixed at battery voltage >> Replace IPDM E/R.

5. CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL OPEN CIRCUIT

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

IPDM E/R		Daytime runr	Continuity	
Connector	Terminal	Connector Terminal		Continuity
E9	105	E13	2	Existed

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

6.CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL SHORT CIRCUIT

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

IPDI	M E/R		Continuity	
Connector Terminal		Ground	Continuity	
E9 105			Not existed	

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace IPDM E/R.

Component Inspection

INFOID:0000000004459619

1. CHECK DAYTIME RUNNING LIGHT RELAY EXCITATION COIL SIDE

- Turn the ignition switch OFF.
- 2. Remove the daytime running light relay.
- Check continuity of the daytime running light relay excitation coil side.

Daytime runr	Continuity	
Terr	Continuity	
1	Existed	

Does continuity exist?

YES >> GO TO 2.

NO >> Replace the daytime running light relay.

DAYTIME RUNNING LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

$\overline{2}$.CHECK DAYTIME RUNNING LIGHT RELAY CONTACT SIDE

- 1. Apply battery voltage to the daytime running light relay between the terminals 1 and 2.
- 2. Check continuity of the daytime running light relay.

Daytime runr	ning light relay	Condition	Continuity	
Terminal		Voltage	Continuity	
3	4	Apply	Existed	
3	4	Not Apply	Not existed	

Does continuity exist?

YES >> Daytime running light relay is normal.

NO >> Replace the daytime running light relay.

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PARKING LAMP CIRCUIT

WITHOUT DAYTIME RUNNING LIGHT SYSTEM

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Component Function Check

INFOID:0000000004404188

1. CHECK PARKING LAMP OPERATION

RIPDM E/R AUTO ACTIVE TEST

- Activate IPDM E/R auto active test. Refer to <u>EXL-30</u>, "<u>Diagnosis Description</u>".
- 2. Check that the parking lamp is turned ON.

(P)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-48, "WITHOUT DAYTIME RUNNING LIGHT SYSTEM : Diagnosis Procedure".

WITHOUT DAYTIME RUNNING LIGHT SYSTEM : Diagnosis Procedure

INFOID:0000000004404189

1. CHECK PARKING LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Parking lampFront side marker lamp	IPDM E/R	#52	10 A

Is the fuse fusing?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK PARKING LAMP SHORT CIRCUIT

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

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

Does continuity exist?

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

NO >> Replace the fuse. (Replace IPDM E/R if 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

(P)CONSULT-III ACTIVE TEST

1. Disconnect the front combination lamp connector.

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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- Turn the ignition switch ON.
- 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		
	(+)		(-)	Test item	Voltage	
IPDM E/R				EXTERNAL	(Approx.)	
Conr	nector	Terminal		LAMPS		
RH		91	Ground	TAIL	Battery voltage	
IXI I				Off	0 V	
LH	E9	92		TAIL	Battery voltage	
				Off	0 V	

Is the measurement value normal?

YES >> GO TO 5.

NO >> Replace IPDM E/R.

5. CHECK PARKING LAMP OPEN CIRCUIT

- 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.

Continuity	ination lamp	Front comb	IPDM E/R		
Continuity	Terminal	Connector	Terminal	Connector Termi	
Existed	8	E28	91	E9	RH
LXISIEU	8	E58	92	LS	LH

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

O.CHECK PARKING LAMP GROUND OPEN CIRCUIT

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

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

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

WITH DAYTIME RUNNING LIGHT SYSTEM

WITH DAYTIME RUNNING LIGHT SYSTEM: Component Function Check INFOID:000000004459620

NOTE

Check the daytime running light relay circuit first if the parking lamp, tail lamp, license plate lamp and side marker lamp are not turned ON. Refer to EXL-45, "Component Function Check".

1. CHECK PARKING LAMP OPERATION

- Activate IPDM E/R auto active test. Refer to <u>EXL-30, "Diagnosis Description"</u>.
- Check that the parking lamp is turned ON.

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< DTC/CIRCUIT DIAGNOSIS >

(P)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-50, "WITH DAYTIME RUNNING LIGHT SYSTEM : Diagnosis Procedure".

WITH DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure

INFOID:0000000004459621

1. CHECK PARKING LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 2.

NO >> Replace the bulb.

2.CHECK PARKING LAMP OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Remove the daytime running light relay.
- 3. Disconnect the front combination lamp connector.
- Check continuity between the daytime running light relay harness connector and the front combination lamp harness connector.

Daytime running light relay			Front comb	Continuity		
Connector		Terminal	Connector Termina		Continuity	
RH	E13	5	E28	8	Existed	
LH	LIS	3	E58	8	LXISIGU	

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3. CHECK PARKING LAMP SHORT CIRCUIT

Check continuity between the daytime running light relay harness connector and the ground.

Daytime runr	ning light relay		Continuity
Connector Terminal		Ground	Continuity
E13	5		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 4.

f 4 .CHECK PARKING LAMP GROUND OPEN CIRCUIT

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

Fi	ont comb	ination lamp		Continuity	
Conr	nector	Terminal	Ground	Continuity	
RH	E28	4	Glound	Existed	
LH	E58	4		LAISted	

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

Revision: 2009 December EXL-50 2009 370Z

TURN SIGNAL LAMP CIRCUIT [XENON TYPE] < DTC/CIRCUIT DIAGNOSIS > TURN SIGNAL LAMP CIRCUIT Α Description INFOID:0000000004404190 BCM performs the high flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is NOTE: Turn signal lamp blinks at normal speed when using the hazard warning lamp. Component Function Check INFOID:0000000004404191 1. CHECK TURN SIGNAL LAMP D **PCONSULT-III ACTIVE TEST** Select "FLASHER" of BCM (FLASHER) active test item. With operating the test items, check that the turn signal lamp blinks. Е LH : Turn signal lamp LH blinking RH : Turn signal lamp RH blinking F Off : The turn signal lamp OFF Does the turn signal lamp blink? >> Turn signal lamp circuit is normal. YES >> Refer to EXL-51, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:0000000004404192 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

(P)CONSULT-III ACTIVE TEST

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

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EXL-51 Revision: 2009 December 2009 370Z

Fror	nt/side					
Terminals				Test item		
	(+)		(-)	rest item	Voltage	
	ВСМ			FLACUED	(Approx.)	
Conr	nector	Terminal		FLASHER		
RH		17	Ground	RH	(V) 15 10 5 0 1 s	
	M119		Glound	Off	0 V	
LH	WITE	18		LH	(V) 15 10 5 0 1 s	
				Off	0 V	
Rea	r					

	Terminals			Test item		
(+)			(-)		Voltage	
	BCM			FLASHER	(Approx.)	
Conr	nector	Terminal		FLASHER		
RH		20	Ground	RH	(V) 15 10 5 0 1 s	
	- M120		Ground	Off	0 V	
LH		25		LH	(V) 15 10 5 0	
				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.
- Check the continuity between the BCM harness connector and the front combination lamp, side turn signal lamp or rear combination lamp harness connector.

TURN SIGNAL LAMP CIRCUIT

Ρ

		CUIT DIAG	NOSIS >			[XENON TYPE]
ı	Front turn s	signal lamp				
	ВС	M	Front comb	oination lamp	Continuity	
Со	nnector	Terminal	Connector	Terminal	30	
RH	M119	17	E28	6	Existed	
LH		18	E58	6		
(Side turn s	gnal lamp				
	ВС	M	Side turn	signal lamp	Continuity	
Co	nnector	Terminal	Connector	Terminal	Continuity	
RH	M119	17	E24	1	Existed	
LH	WITTS -	18	E55	1	Existed	
ı	Rear turn s	ignal lamp				
	ВС	M	Rear comb	ination lamp	0	
Со	nnector	Terminal	Connector	Terminal	Continuity	
RH	M400	20	B67	4	Friete d	
LH	M120	25	B60	4	Existed	
che ront/		nuity betwee	en the BCM	harness co	nnector and th	ground.
		BCM			Continuity	
	Connecto	r Tern	ninal	Ground	Continuity	
RH	M1	19	7		Not existed	
LH	1011	1	8		140t CAIGIGG	
lear						
		ВСМ			Continuity	
	Connecto	r Tern	ninal	Ground	Continuity	
RH	M1:		20		Not existed	
LH		2	25			
		uity exist?				
YE: NO	>>	GO TO 5.	narnesses o			
). C	HECK 1	URN SIGN	IAL LAMP G	ROUND O	PEN CIRCUIT	
	ck the co	ontinuity be	tween the fro	ont combina	ation lamp, sid	turn signal lamp or rear combination lamp and
ront	turn signal	lamp				
	Front co	mbination lam	ıp		Oznativ ii	
	Connector	Term			Continuity	

Existed

Connector

E28

E58

RH

LH

Terminal

4

Ground

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Side turn signal lamp

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

Rear turn signal lamp

R	ear comb	ination lamp		Continuity	
Connector		Terminal	Ground	Continuity	
RH	B67	3	Glound	Existed	
LH	B60	3		LXISTEG	

Does continuity exist?

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

NO >> Repair the harnesses or connectors.

INFOID:0000000004404194

INFOID:0000000004404195

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OPTICAL SENSOR

Description INFOID:0000000004404193

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

Component Function Check

1. CHECK OPTICAL SENSOR SIGNAL BY CONSULT-III

PCONSULT-III DATA MONITOR

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

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

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

Is the item status normal?

YES >> Optical sensor is normal.

NO >> Refer to EXL-55, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

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

(Voltage		
Optica	l sensor		(Approx.)
Connector Terminal		Ground	
M94	1		5 V

Is the measurement value normal?

YES >> GO TO 2.

NO >> GO TO 4.

2.CHECK OPTICAL SENSOR GROUND INPUT

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

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

Is the measurement value normal?

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

3.check optical sensor signal output

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< DTC/CIRCUIT DIAGNOSIS >

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

Terminals			Condition		
(+)		(-)	Condition	Voltage	
Optical sensor			Optical sensor	(Approx.)	
Connector	Terminal	Ground	Optical serisor		
M94 2		Giodila	When illuminating	3.1 V or more *	
IVIO	2		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		Continuity
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			Continuity
Connector Terminal		Ground	Continuity
M94	1		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

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

- 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		Continuity
M94	3	M123	137	Existed

Does continuity exist?

YES >> Replace BCM.

NO >> Repair the harnesses or connectors.

7. CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

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

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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

Does continuity exist?

YES >> GO TO 8.

NO >> Repair the harnesses or connectors.

8.CHECK OPTICAL SENSOR SHORT CIRCUIT

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

Optical sensor			Continuity
Connector Terminal		Ground	Continuity
M94	2		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

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HAZARD SWITCH

Component Function Check

INFOID:0000000004404197

1. CHECK HAZARD SWITCH SIGNAL BY CONSULT-III

(E)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	Con	Monitor status	
HAZARD SW	Hazard switch	ON	On
	Tiazaiù Switch	OFF	Off

Is the item status normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to EXL-58, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004404198

1. CHECK HAZARD SWITCH SIGNAL INPUT

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

	Terminals		Condition		
(+)		(-)	Condition	Voltage	
ВС	M		Hazard	(Approx.)	
Connector	Terminal		switch		
			ON	0 V	
M122	110	Ground	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB	

Is the measurement value normal?

YES >> Replace BCM.

NO >> GO TO 2.

2. CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

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

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

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3. CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

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

HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Hazaro	d switch		Continuity
Connector	Terminal	Ground	Continuity
M144	2		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 4.

4. CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

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

Hazard	d switch		Continuity
Connector	Terminal	Ground	Continuity
M144	1		Existed

Does continuity exist?

YES >> Replace the hazard switch.

NO >> Repair the harnesses or connectors.

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TAIL LAMP CIRCUIT

WITHOUT DAYTIME RUNNING LIGHT SYSTEM

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Component Function Check

INFOID:0000000004404199

1. CHECK TAIL LAMP OPERATION

RIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to EXL-30, "Diagnosis Description".
- 2. Check that the tail lamp is turned ON.

(P)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-60, "WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure".

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure

INFOID:0000000004404200

1.CHECK TAIL LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Tail lamp Rear side marker lamp License plate lamp	IPDM E/R	#53	10 A

Is the fuse fusing?

YES >> Repair the malfunctioning part before replacing the fuse.

NO >> GO TO 2.

2.CHECK TAIL LAMP OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

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

_	Terminals		Test item		
(+)		(-)	iest item	Voltage	
IPDM E/R		EXTERNAL		(Approx.)	
Connector	Terminal	Ground	LAMPS		
E5	7	Giodila	TAIL	Battery voltage	
E0	,		Off	0 V	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace IPDM E/R.

${f 3.}$ CHECK TAIL LAMP OPEN CIRCUIT

1. Turn the ignition switch OFF.

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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Disconnect IPDM E/R connector.

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

 IPDM E/R
 Rear combination lamp
 Continuity

 Connector
 Terminal
 Continuity

 RH
 E5
 7
 B67
 2
 Existed

 LH
 B60
 2
 Existed

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TAIL LAMP GROUND OPEN CIRCUIT

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

R	ear comb	ination lamp		Continuity
Connector Terminal		Ground	Continuity	
RH	B67	3	Glound	Existed
LH	B60	3		LAISIEU

Does continuity exist?

YES >> Replace the rear combination lamp.

NO >> Repair the harnesses or connectors.

WITH DAYTIME RUNNING LIGHT SYSTEM

WITH DAYTIME RUNNING LIGHT SYSTEM: Component Function Check INFOID:000000004459624

NOTE:

Check the daytime running light relay circuit first if the parking lamp, tail lamp, license plate lamp and side marker lamp are not turned ON. Refer to EXL-45, "Component Function Check".

1. CHECK TAIL LAMP OPERATION

- Activate IPDM E/R auto active test. Refer to <u>EXL-30</u>. "<u>Diagnosis Description</u>".
- 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-61, "WITH DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure".

WITH DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure

1. CHECK TAIL LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 2.

NO >> Replace the bulb.

2.CHECK TAIL LAMP OPEN CIRCUIT

Turn the ignition switch OFF.

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INFOID:00000000004459625

TAIL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

- 2. Remove the daytime running light relay.
- 3. Disconnect the rear combination lamp connector.
- 4. Check continuity between the daytime running light relay harness connector and the rear combination lamp harness connector.

Dayti	Daytime running light relay		Rear combination lamp		relay Rear combination lamp Continuity		Continuity
Conr	nector	Terminal	Connector	Terminal	Continuity		
RH	E13	5	B67	2	Existed		
LH	LIS	3	B60	2	LAISIGU		

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3.check tail lamp ground open circuit

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

Rear combination lamp				Continuity
Con	nector	Terminal	Ground	Continuity
RH	B67	3	Glound	Existed
LH	B60	3		Existed

Does continuity exist?

YES >> Replace the rear combination lamp.

NO >> Repair the harnesses or connectors.

LICENSE PLATE LAMP CIRCUIT

WITHOUT DAYTIME RUNNING LIGHT SYSTEM

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Component Function Check

INFOID:0000000004404201

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NOTE:

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

1. CHECK LICENSE PLATE LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to EXL-30, "Diagnosis Description".
- Check that the license plate lamp is turned ON.

CONSULT-III ACTIVE TEST

- 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-63, "WITHOUT DAYTIME RUNNING LIGHT SYSTEM : Diagnosis Procedure".

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure

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

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

Continuity	License plate lamp		JI E/R	IPDN	
Continuity	Terminal	Connector	Terminal	nector	Conr
Existed	2	B153	7	E5	RH
LXISIEU	2	B152	,	LJ	LH

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				Continuity
Connector Terminal		Ground	Continuity	
RH	B153	1	Glound	Existed
LH	B152	1		LAISIEU

Does continuity exist?

Revision: 2009 December

>> Replace the license plate lamp.

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NO >> Repair the harnesses or connectors.

WITH DAYTIME RUNNING LIGHT SYSTEM

WITH DAYTIME RUNNING LIGHT SYSTEM: Component Function Check INFOID.00000004455622

NOTE:

Check the daytime running light relay circuit first if the parking lamp, tail lamp, license plate lamp and side marker lamp are not turned ON. Refer to EXL-45, "Component Function Check".

1. CHECK LICENSE PLATE LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to EXL-30, "Diagnosis Description".
- 2. Check that the license plate lamp is turned ON.

(P)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-64, "WITH DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure".

WITH DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure

INFOID:0000000004459623

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.
- Remove the daytime running light relay.
- 3. Disconnect the license plate lamp connector.
- 4. Check continuity between the daytime running light relay harness connector and the license plate lamp harness connector.

Dayti	me runr	ning light relay	License plate lamp		ng light relay License plate lamp		Continuity
Conr	nector	Terminal	Connector	Terminal	Continuity		
RH	E13	5	B153	2	Existed		
LH	LIS	7	B152	2	LXISIEU		

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				Continuity
Connector Terminal		Ground	Continuity	
RH	B153	1	Glound	Existed
LH	B152	1		LAISted

Does continuity exist?

LICENSE PLATE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS > [XENON TYPE]

YES >> Replace the license plate lamp.

NO >> Repair the harnesses or connectors.

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REAR FOG LAMP CIRCUIT

Component Function Check

INFOID:0000000004459626

1. CHECK REAR FOG LAMP OPERATION

®CONSULT-III ACTIVE TEST

Select "RR FOG LAMP" of BCM (HEAD LAMP) active test item.

2. With operating the test items, check that the rear fog lamp is turned ON.

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

Is rear fog lamp turned ON?

YES >> Rear fog lamp circuit is normal.

NO >> Refer to EXL-66, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004459627

1. CHECK REAR FOG LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 2.

NO >> Replace the bulb.

2.CHECK REAR FOG LAMP OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

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

Terminals			Test item		
(+)		(-)	rest item	Voltage (approx.)	
ВС	BCM		RR FOG LAMP		
Connector	Terminal				
M120	24	Giodila	On	Battery voltage	
IVI 120	24		Off	0 V	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace BCM.

3.CHECK REAR FOG LAMP OPEN CIRCUIT

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

В	CM	Rear fo	og lamp	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M120	24	B70	1	Existed

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

REAR FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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4. CHECK REAR FOG LAMP SHORT CIRCUIT

Check for continuity between BCM harness connector and the ground.

В	СМ		Continuity
Connector	Terminal	Ground	Continuity
M120	24		Not existed

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

5. CHECK REAR FOG LAMP GROUND OPEN CIRCUIT

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

Rear fo	og lamp		Continuity
Connector	Terminal	Ground	Continuity
B70	2		Existed

Does continuity exist?

YES >> Replace the rear fog lamp.

NO >> Repair the harnesses or connectors.

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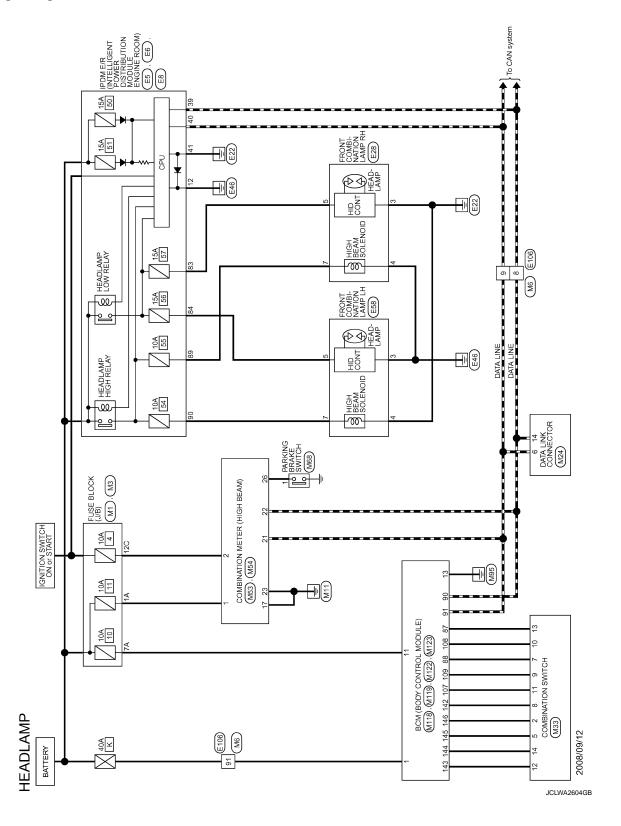
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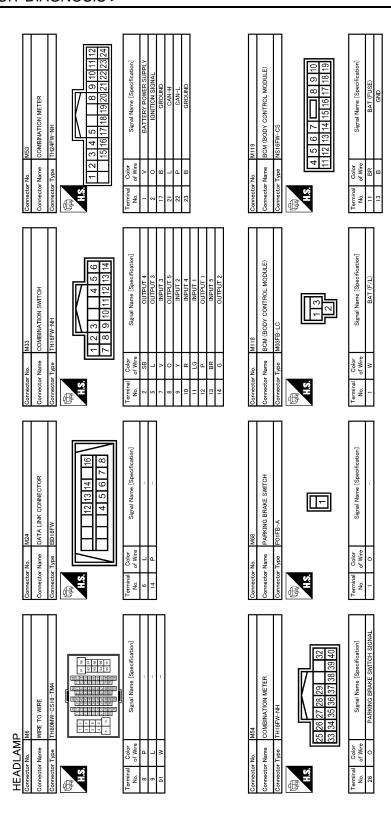
HEADLAMP SYSTEM

Wiring Diagram - HEADLAMP -



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FRONT COMBINATION LAMP RH RS06FGY-PR	Signal Name (Specification)	M3 FUSE BLOCK (J/B) NSIZEW-CS SC 4C 3C 2C 1C 12C 11C 10C 9C 8C 7C 6C	Signal Name [Specification]		В
Connector No. E28 Connector Name FRON Connector Type RS06F	Color Color No. of Wire S B B Color Co	Connector No. M3 Connector Name FUSE BLC Connector Type NSIZEW-C Connector Name FUSE BLC Connector No. M3 Connecto	Terminal Color No of Wire 12C O		D
					Е
EB IPDM E/R (INTELLIGENT POWER DISTRABUTION MODULE ENGINE ROOM) NSOBPW-CS 85	Signal Name (Specification)	NSOBFW-MZ SA TA GA EA	Signal Name [Specification]		F
ector No. ector Name ector Type	Color Color No. Of Wire St. P.	ector No. ector Type	Terminal Color No. of Wire 1A V 7A BR		G
Comm	Termin No. 10 83 83 84 84 84 84 84 84 84 84 84 84 84 84 84	Comm	Term 1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1		Н
EB PDM E.R. (INTELLIGENT POWER DOSTRIBUTION MODULE ENGINE ROOM) THOSPW-NH 42 41 40 39 46 45 44 43	Signal Name [Specification]	E106 WIRE TO WIFE TH80PW-CS16-TM4 IN I	Signal Name [Specification]		J
Connector No. E6 Connector Name DIST Connector Type TH08	Color No. of Wire No. of	Connector No. E106 Connector Name WIFE TC Connector Type TH80FW H.S. STATE TH80FW S	No. Color No. No		K
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ES POME E (NITELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) THZOFW-CS12-M4-IV 213141 ERBOTTERE ENGINERE STREET 213141 ERBOTTERE ENGINERE STREET 213151 ERBOTTERE ENGINERE 213151 ERBOTTERE ENGINERE 213151 ERBOTTERE ENGINERE 213151 ERBOTTERE 213151 ERB	Signal Name (Specification)	FRONT COMBINATION LAMP LH RSOBFOY-PR 3 7 6 4 5 8	Signal Name [Specification]		M
E5 IPDM E/R (DISTRIBUT TH20FW-C4	Ш	FESS FRONT COME RSDSFGY-PR			Ν
HEADLAMP Connector Name E5 Connector Type THZOFW State State	Terminal Color No. of Wire 12 B/W	Connector No. Connector Type Connector Type H.S.	Terminal Color		0
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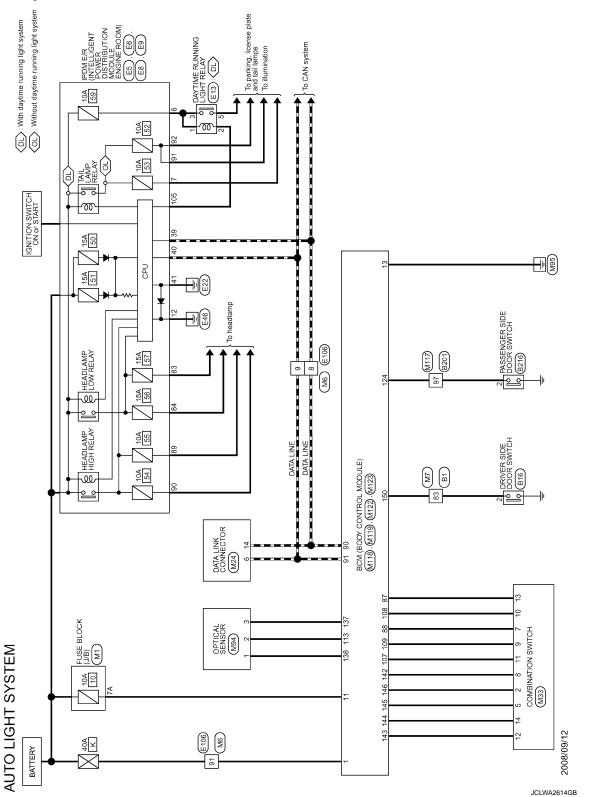
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HEADLA	HEADLAMP	Д.	N wothouse		M103	
Connecto	No.	M122	Connector	I	NILZO	
Connector Name	or Name	BCM (BODY CONTROL MODULE)	Connector Name	Name	BCM (BODY CONTROL MODULE)	
Connector Type	r Type	TH40FB-NH	Connector Type	П	TH40FG-NH	
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	91 90 89 85	91 90 89 88 87 86 85 84 83 82 81 80 73 78 77 75 75 74 73 72 72 72 71 71 75 75 74 75 72 72 71 71 71 72 72 72 72 72 72 72 72 72 72 72 72 72		51 150 129 128	रहा रठा रठा रठा रठा रठा रठा रठा रठा रठा रठ	
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	
87	BR	COMBI SW INPUT 5	142	0	COMBI SW OUTPUT 5	
88	۸	COMBI SW INPUT 3	143	Ь	COMBI SW OUTPUT 1	
06	d	CAN-L	144	9	COMBI SW OUTPUT 2	
91	٦	CAN-H	145	٦	COMBI SW OUTPUT 3	
107	PT PT	COMBI SW INPUT 1	146	SB	COMBI SW OUTPUT 4	
108	ď	COMBI SW INPUT 4				
109	Å	COMBLSW INPUT 2				

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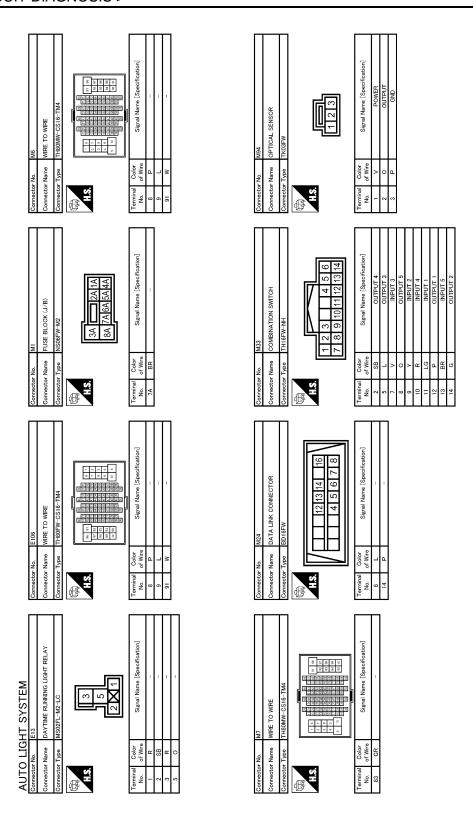
AUTO LIGHT SYSTEM

Wiring Diagram - AUTO LIGHT SYSTEM -



Signal Name [Specification]	E9 PPDM E.PR.(INTELLIGENT POWER INSTRIBUTION MODULE ENGINE ROOM) THI 6FW-NH 108 97 96 95 94 93 92 91 108 105 104 103 102 101 100 99		АВ
Connector No. B216 Connector Name PASSENGER SIDE DOOR SWITCH A03FW A37FW Terminal Color Signal Name (Specification of Wire a Light Color Name (Specificatio	Connector No. E9 Connector Name DISTRIBUTION MOI Connector Type THISTW-NH HS. 198 97 96 95 94 No. of Wire Signal Nam 91 0 0 105 SB		C D
WIRE TO WIRE THEOFFW. CS.16-TM4 Signal Name (Specification)	PDM E/R (NYTELLICENT POWER DISTRIBUTION MODULE ENGINE ROOM) NS08FW-CS 85		E F
Connector No. B201 Connector Name WRE TC Connector Types TH80PW	Connector No. Connector Name Connector Type Terminal Color No. of Wire 83 R R 84 P P		G H
B16 A03FW A03FW Signal Name [Specification]	PIDNE PR (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) THOSFW-NH 42 41 40 39 46 45 44 43 Signal Name [Specification]		J
Connector No. B16 Connector Name DRIVE Connector Type A03FW H.S. Terminal Color No. of Wire 2 GR	Connector No. E8		K
Now wree w.cs.16-TM4 W.cs.16-TM4 Signal Name [Specification]	PDM.E.R. (NITELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TH20FW-CS12-M4-1V TH20FW-CS12-M4-1V Signal Name [Specification] Signal Name [Specification]		M M
AUTO LIGHT SYSTEM Connector Name WIRE TO WIRE Connector Type THROFFW-CSIG-TM4 LAS MAN TO MIRE Terminal Color Signal Name 83 GR Signal Name 83 GR	Connector No. E5 Connector Name IPDM E.R. Connector Type TH20FW-Th120F		N O
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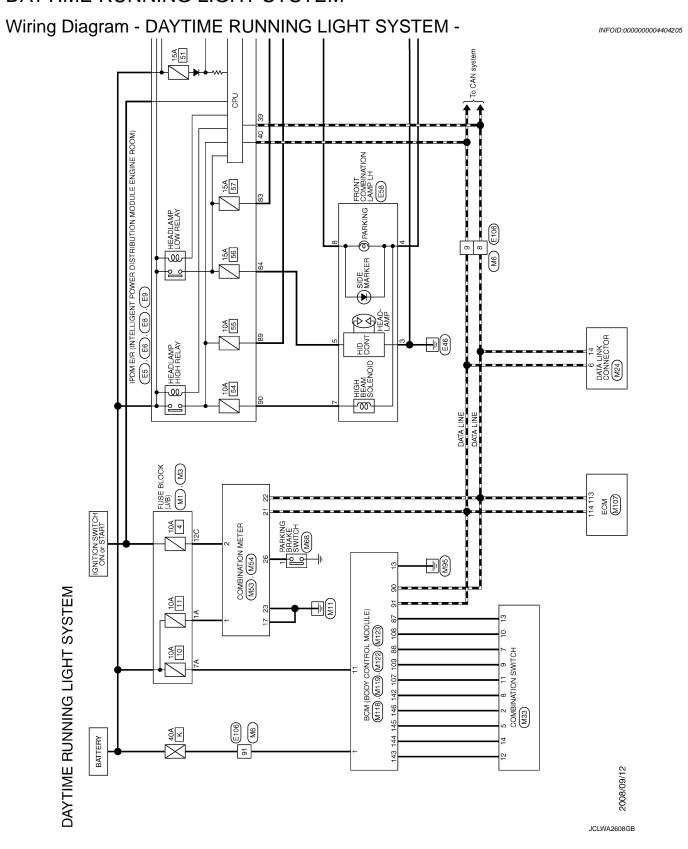
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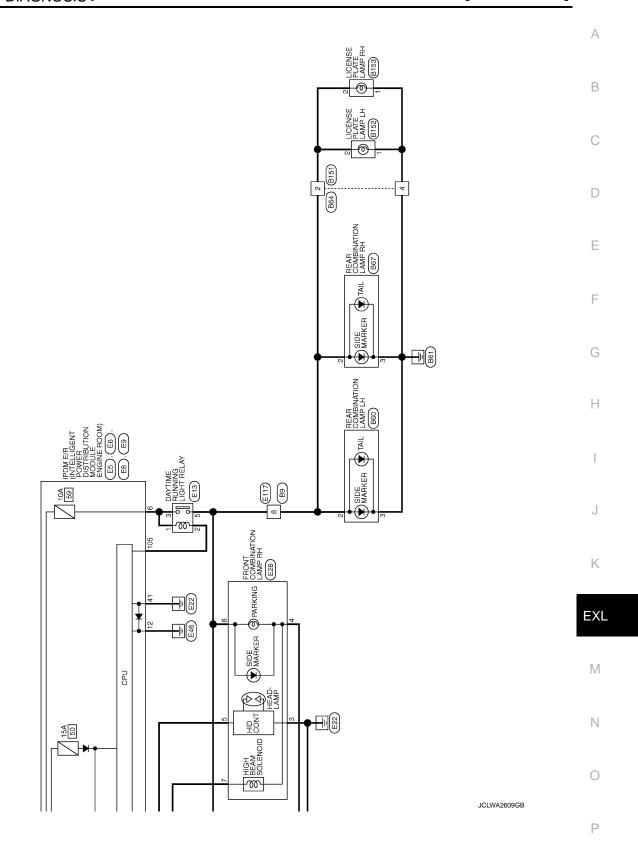


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MM119 BCM (BO NS16FW 1 12 13				G
Connector No. Connector Name Connector Type (M.S. H.S. H.S. I ERR				Н
DY CONTROL MODULE) C Table 1 13 Signal Name (Specification) BAT (F/L)				I
				J
Connector No. M118 Connector Name BCM Connector Type M03F M3. H.S. Terminal Color No. of Wire I W				K
		National Park		EXL
WRE CSIG-TM4 CSIG-TM7 CSIG-TM4 CSIG-TM7	MI23 TH40FG-NH T	Signal Name [Specification] OPTICAL SENSOR PASSINGER DOOR SW RECEIVER-SENSOR GND CCELVER-SENSOR OND CCELVER-SENSOR OND COMBIS WO UITPUT 1 COMBIS SW OUTPUT 2 COMBIS SW OUTPUT 2 COMBIS SW OUTPUT 3 COMBIS SW OUTPUT 4 DRIVER DOOR SW		M
WIRE TO	22 22	i i i i i i i i i i i i i i i i i i i		Ν
AUTO LIG Connector No. Cornector Type Cornector Type M.S. Terminal Color No. of Wire 97 LG	Connector No. Connector Name Connector Type H.S. H.S. Eligible	Color No. of Wire Color No. of Wire Color Colo		0
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DAYTIME RUNNING LIGHT SYSTEM





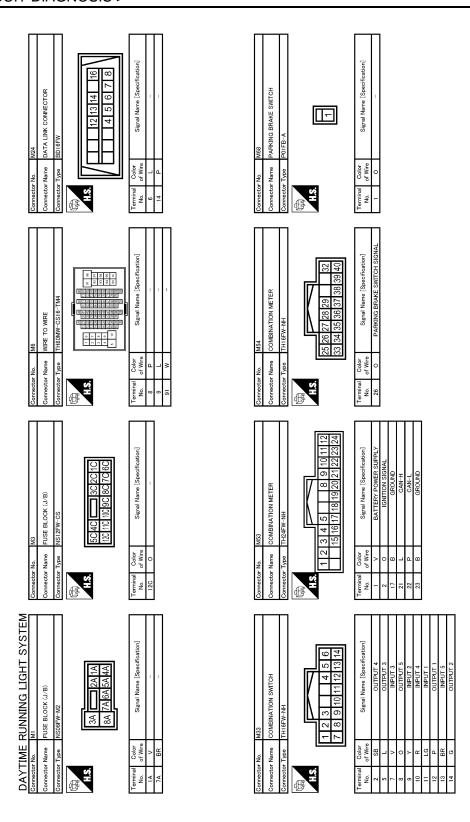
Connector No. B67	Connector Type RS06FGY-PR	H.S. 4 1	Terminal Color Signal Name [Specification] No. of Wire 2 R	Connector No. E5 Connector Name IPDM E/R (INTELLIGENT POWER Connector Name INSTREITTION MODILI F ENGINE ROOM)	Connector Type TH20FW-CS12-M4-1V	H.S. 0 10 11 12 13 14 25 17 18 15 15 17 18 15 15 17 18 15 15 17 18 15 15 17 18 15 15 15 15 15 15 15 15 15 15 15 15 15	Terminal Color Signal Name [Specification]
Connector No. B64	Connector Type RS04FB-PR	HS.	Terminal Color Signal Name Specification	Connector No. B153 Connector Name LICENSE PLATE LAMP RH	Connector Type RK02FBR	HS.	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 1 B 2 R
Connector No. B60	Connector Type RS08FGY-PR	H.S. (1862)	Terminal Color Signal Name (Specification) 2 R	Connector No. B152 Connector Name LICENSE PLATE LAMP LH	Connector Type RK02FBR	H.S.	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] B
DAYTIME RUNNING LIGHT SYSTEM Connector No.	Connector Type NS08FW-CS	HS. 3 - 2 1 8 7 6 5 4	Terminal Color No. of Wire 8 R R .	Connector No. B151 Connector Name WIRE TO WIRE	Connector Type RS04MB	\$1 \$1 \$2 \$2 \$7	Terminal Golor Signal Name [Specification] No. of Wire Signal Name [Specification] 4 8

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DAYTIME RUNNING LIGHT SYSTEM

Connector No. E13 Connector Name DAYTIME RUNNING LIGHT RELAY Connector Type MS02FL-M2-LC	Connector No. E117 Connector Name WRE TO WIRE Connector Type NSDBWY-CS ALS Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]	A B C	
Connector Connector Connector No. 1.5. 1.5. 1.5. 2.2. 2.2. 2.2. 3.3. 5.3.	Connector Connector Terminal No. 8	D	
(NOOM)		E	
E9 IPOM E/R (INTELLIGENT POWER IPOM ENGINE ROOM) THIGEW-NH B97 96 95 94 93 92 91 Signal Name [Specification]	WINE TO WINE THEOFW-CSIG-TM4 IN I	F	
B Fire		G	i
Connector No. Connector Type Connector Type H.S. H.S. Inc. of William Of Will	Connector No. Connector Name Connector Type H.S. H.S. H.S. Goldon, of Wiley B. P. P. 9 P. P. 9 P. P. 9 P. P.	н	
E8 NSOBFW-CS Signal Name (Specification)	FRONT COMBINATION LAMP LH FRONT COMBINATION LAMP LH FRONT COMBINATION LAMP LH Sogral I Name [Specification]	I	
Signal Nam	Signal Nam	J	
2		K	
Connector No. Connector Name Connector Type ITeminal Color No. of Wr. 88 88 88 88 88 88 88	Connector Name Connector Type Connec		
MI (8)		EX	L
DAYTIME RUNNING LIGHT SYSTEM Somestor No. E6 PDR FR (NTELLIGENT POWER SOM) Somestor Type THOSFW-NH POWER ROOM) POWER FROM POWER ROOM) POWER FROM POWER ROOM POWER FROM POWER F	FRONT COMBINATION LAMP RH RSOBFOY PR Signal Name [Specification]	М	
RUNNIN FE FE THOSE WANTED THE THOSE WANTED T	FEONIT C	N	
DAYTIME Connector No. Connector Name Connector Type Connector Type (M. 1.8.) Connector Type Conn	Connector No Connector Name Connector Type A.S. A.S. A.S. A.S. B.W. B.W.	0	ł
마 <u>영호</u> 에 (윤 및 - -	[8] [8] [8] [F] [F] [] [] [] [] [] [] [] [] [] [] [] [] []	JCLWA2611GB	
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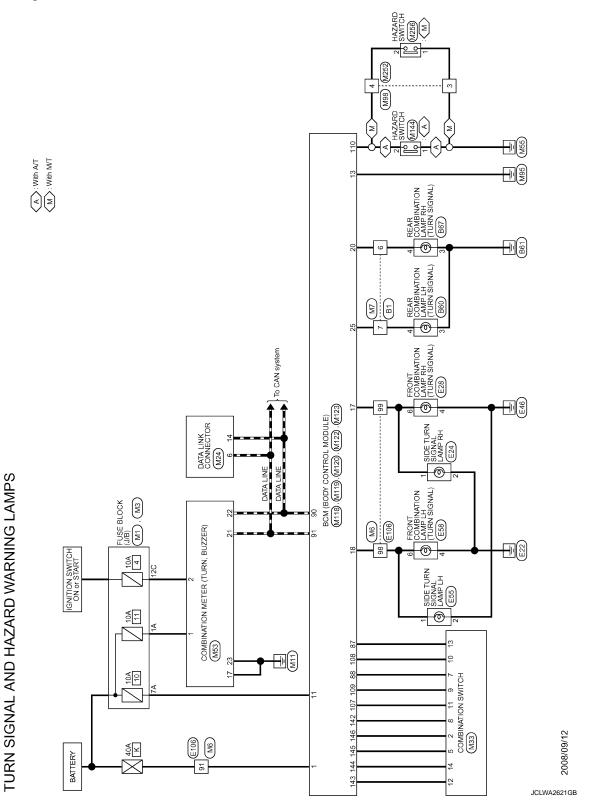
DAYTIME RUNNING LIGHT SYSTEM

E. (2)				Α
M122 BCM (BODY CONTROL MODULE) TH40FB -NH ET BC SC	COMBIS SW INPUTS CAN-L CAN-L CAN-L COMBIS SW INPUT 1 COMBIS SW INPUT 2 COMBIS SW INPUT 2			В
M122 BCM (BC TH400FB				С
tor to	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			D
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	BAT (FUSE)			F
MM119 BCM (BC NS16FW 1 12 13	<u>ж</u> ш			G
<u>ब</u>	= 2			Н
DOULE) Officetion]				I
	BAT (F/L)			J
2 2	_ >			K
	- <u> </u> 		E	EXL
HT SYSTE	MODULE)	peofication) UNEVIT 6 UNEVIT 1 UNEVIT 2 UNEVIT 3 UNEVIT 4		M
AUNNING LIGHT SYS MIO7 ECM RH24FGV-RZS R-LH-Z TZS TZS THENT THE	MI23 BOM (BODY CONTROL MODULE) THADFG-NH THADFG-NH THAT IS THE TO THE THE THE THE THAT IS THE THE THE THE THAT IS THE THE THE THAT IS THE THE THAT IS THE THE THAT IS THAT IS THE THAT IS THAT	Signal Name (Specification) COMBIS SW OUTPUT 5 COMBIS SW OUTPUT 2 COMBIS SW OUTPUT 2 COMBIS SW OUTPUT 3 COMBIS SW OUTPUT 4		N
No. Name Type	123 123 123 123 123 123 123 123 123 123	SB SB C C P C P C P C P C P C P C P C P C P		
Odmestal Cornector Cornector H.S.	Connector No. Connector Na. Connector Tay	Terminal No. 1 (142) 142 143 145 145 145 145 145 145 145 145 145 145	JCLWA2613GB	0
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram - TURN SIGNAL AND HAZARD WARNING LAMPS -

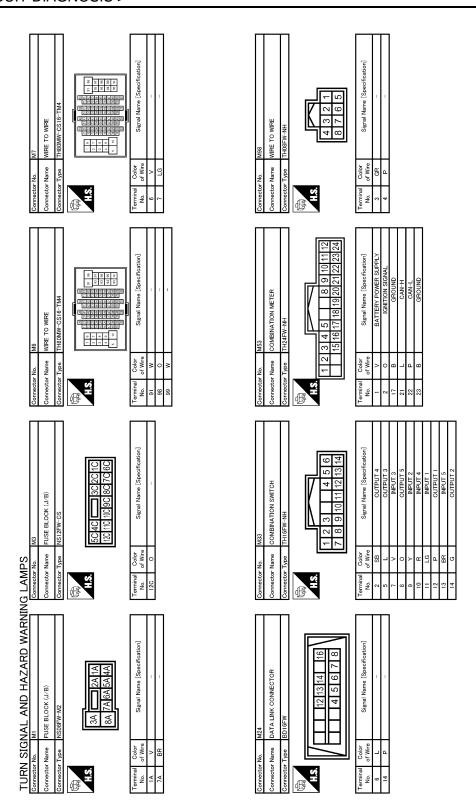


TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

[XENON TYPE] < DTC/CIRCUIT DIAGNOSIS >

MP RH Specification] Specification]		A B
No. E24		С
Connector No. Colon Colon No. Colon Colon No. Colon Colo		D
ontion]		Е
REAR COMBINATION LAMP RH RSG6FGV-PR Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]		F
Name		G
Connector No. Connector No. Connector No. Connector No. Connector No. Connector Name Connec		Н
FEAR COMBINATION LAMP LH RSOGFOY-PR Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]		l J
Connector Nume REAR COMBINED		K
	E	XL
TURN SIGNAL AND HAZARD WARNING Connector Name WIPE TO WIPE Demector Type High Fig. 1 No. of Wire Connector Name (Spreif cation) Signal Name (Spreif cation) Connector Name (Spreif cation) A. Signal Name (Spreif cation)	-	M
Signal Name Signal		N
Connector Name Connector Name Connector Name Connector Type 6 V 7 LG 7 LG Connector Name Connect		0
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS > [XENON TYPE]

Connector No. M122 Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FB-NH H.S. In this test of the first of t	Terminal Color No. Signal Name [Specification]	Connector No. M256	A B C
Оситестог No. M120 Оситестог Name BOM (BODY CONTROL MODULE) Оситестог Туре NS12FW-CS Материа 22 22 23 24 25 26 27 28 29 30 31	Terminal Color Signal Name Specification No. of Wire Signal Name Specification 20 V TURN SIGNAL LH (REAR) 25 LG TURN SIGNAL LH (REAR)	Connector Name WIRE TO WIRE	E F G
NG LAMPS Connector No. M119	Terminal Color Signal Name [Specification] No. of Wife Signal Name [Specification] I BR BAT (FUSE) Signal Name Specification] Specification Specific	Connector No. M144	J K
TURN SIGNAL AND HAZARD WARNING Connector No. MITS Connector Name BOM (BODY CONTROL MODULE) Connector Type MODFB-LC THAS THAS	Terminal Golor Signal Name [Specification] No. of Wre BAT (F./L)	Connector No. M123	M N
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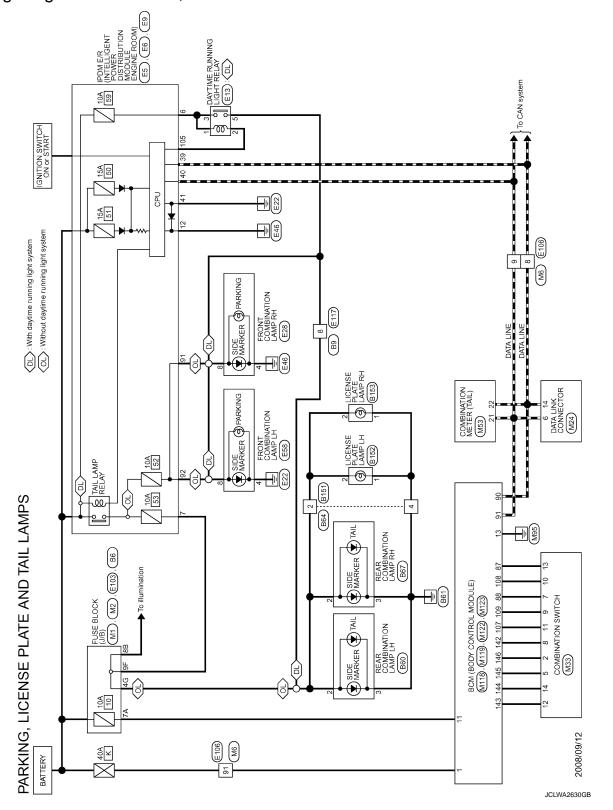
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[XENON TYPE]

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram - PARKING, LICENSE PLATE AND TAIL LAMPS -



PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS > [XENON TYPE]

Connector Name B64	A B C
Commercior No. 560 Commercior No. 560 Commercior Name REAR COMBINATION LAMP LH Commercior Type REGORFOY-PR Commercior Name Color	E F G
Connector Name Wire To Wire	J K
PARKING, LICENSE PLATE AND TAIL Connector Number FUSE BLOCK (JUB) Connector Types INSIZEBR-CS Connec	M N O

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E9 Comector No. E13 PDM ER (INTELLIGENT POWER COMPANY	Commetter Type MSICPEL-M2-LC THISPFF-NH THISPF-NH THISPFF-NH THISPF-NH THISPF-NH THISPF-NH THISPFF-NH	Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wire Signal Name [Specification]	Connector No. (J/B) Connector Name	NS 16 W-25 P-1 M4 NS 16 W-25 P-1 M4	Signal Name [Specification] Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] Research Perminal Name Specification] Research Perminal Name Specification Perminal Name Perminal Nam
POWER Connector No.	Connector Type	Terminal Color No. of Wire P P 22 O 105 SB		Connector Type	recrification] Terminal Color No. of Wire
L_AMPS Connector No. E6 Connector Name ppbM E/RINTELLIGENT POWER Connector Name ppc-rase introvince proper	Connector Type TH08FW-NH H.S. 42 41 40 39 46 45 44 43	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 39 P	ПП	Connector type Institute of 7-PH.	Terminal Color Signal Name [Specification] No. of Wire 4 R.W
PARKING, LICENSE PLATE AND TAIL Connector No. E6 Connector Name PEDM EN (INTELLIGENT POWER DOWNERSTOR Name PROPER EXPONE	THEOPHY-CS12-M4-LV THEOPHY	Signal Name [Spacification]	E28 FRONT COMBINATION LAMP RH	RSD04-CY-PH	Signal Name [Specification]
PARKING, Connector No.	Connector Type 14.5	Terminal Color No. of Wire 6 R 7 7 R 12 B/W	\Box	H.S.	Terminal Golor No. of Wire

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Cornector No. M6 Cornector No. M6 Cornector Type Th80MW-CS16-TM4	
Name FUSE BL NS10FW NS	
Connector Connec	
NSOGFW-M2 NSOGFW-M2 NSOGFW-M2 Signal Name [Specification] NUTDUT 5 NUTDUT 5 NUTDUT 1 NUTDUT 2 NUTDUT 2 NUTDUT 1 NUTDUT 1 NUTDUT 2 NUTDUT 3	
Commetter Name Connector Name Connec	
PARKING, LICENSE PLATE AND TAIL Connector Name Wife To WRE Connector Name Wife To WRE Connector Name Signal Name (Specification) Sometor Name Data Link Connector Name Signal Name (Specification) Sometor Name Data Link Connector Name Signal Name (Specification) Sometor Name Data Link Connector Name Signal Name (Specification) Ats Ats Ats Ats Ats Ats Ats At	
Name WIRE TO WIRE	
DARKING Connector Name Connector Nam	
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Connector No.	П	M119	Connector No.	П	M122	Connector No.	M123
Connector Name	lame BC	BCM (BODY CONTROL MODULE)	Connector Name		BCM (BODY CONTROL MODULE)	Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Type	П	NS16FW-CS	Connector Type	r Type	TH40FB-NH	Connector Type	TH40FG-NH
配 H.S.	4	2	ほ R.S.			是 H.S.	
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Terminal Co No. of	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]
=	BR BR	BAT (FUSE)	87	BR	COMBI SW INPUT 5	142 0	COMBI SW OUTPUT 5
13	В	GND	88	۸	COMBI SW INPUT 3	143 P	COMBI SW OUTPUT 1
			06	d	CAN-L	144 G	COMBI SW OUTPUT 2
			16	7	CAN-H	145 L	COMBI SW OUTPUT 3
			107	97	COMBI SW INPUT 1	146 SB	COMBI SW OUTPUT 4
			108	В	COMBI SW INPUT 4		
			109	٨	COMBI SW INPUT 2		

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STOP LAMP

Wiring Diagram - STOP LAMP -

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STOP LAMP

Connector No. 1860 Connector No. 1867	REAR COMBINATION LAMP LH Connector Name	THS THE STATE OF T	Color Signal Name [Specification] Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 1	Connector No. E103 Connector No. E110 Connector Name FUSE BLOCK (J/B) Connector Name STOP LAMP SWTCH Connector Type NS16PW-CS Connector Type M04FW-LC	1.S 7.F 6.F 6.F 4.F 1.	Color Signal Name [Specification] Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]
Connector No. 1852	ne WIRE TO WIRE	11234	Terminal Color Signal Name [Specification] Terminal Color Or Wire Specification N N A LG	Connector No. D104 Connector No. Connector Name Connector Name Connector Name Connector TX02FW Connect	#S HAS	Terminal Golor Signal Name [Specification] Terminal No. of Wire Signal Name [Specification] No.
STOP LAMP Connector No. 186	e s		Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] SG LG LG LG LG LG LG LG	Connector No. D102 Connector Name WIRE TO WIRE Connector Type THO4FW-NH	HS 4 3 2 1	Terminal Color Signal Name [Specification]

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BACK-UP LAMP

Wiring Diagram - BACK-UP LAMP -

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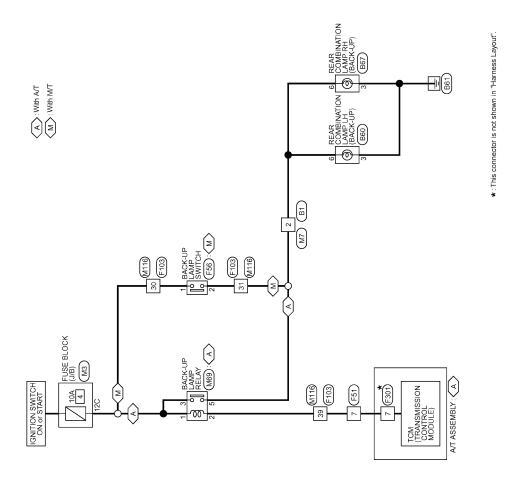
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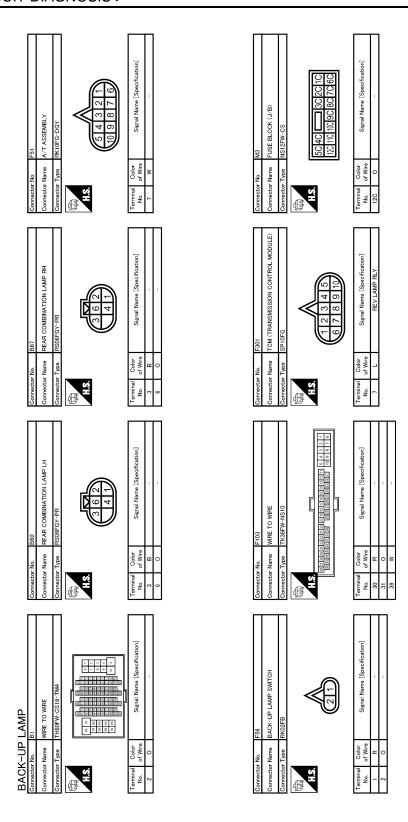
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BACK-UP LAMP



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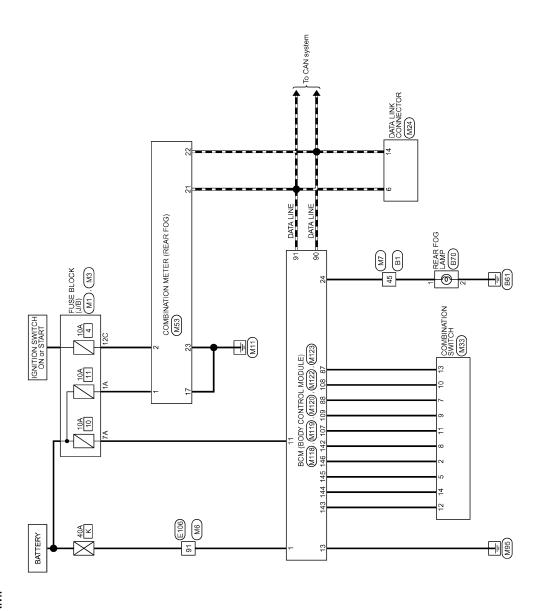
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BACK	4-UP	BACK-UP LAMP						
Connector No.	ı	M7	Connector No.		M69	Connector No.	П	M116
Connector Name	r Name	WIRE TO WIRE	Connector Name	Name	BACK-UP LAMP RELAY	Connector Name		WIRE TO WIRE
Connector	r Type	Connector Type TH80MW-CS16-TM4	Connector Type		MS02FL-M2-LC	Connector Type		TK36MW-NS10
H.S.			H.S.		X X X X X X X X X X	H.S.	1 2 3 4 5 6 7 8 9 10	
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal o	Color of Wire	Signal Name [Specification]
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REAR FOG LAMP SYSTEM

Wiring Diagram -REAR FOG LAMP-

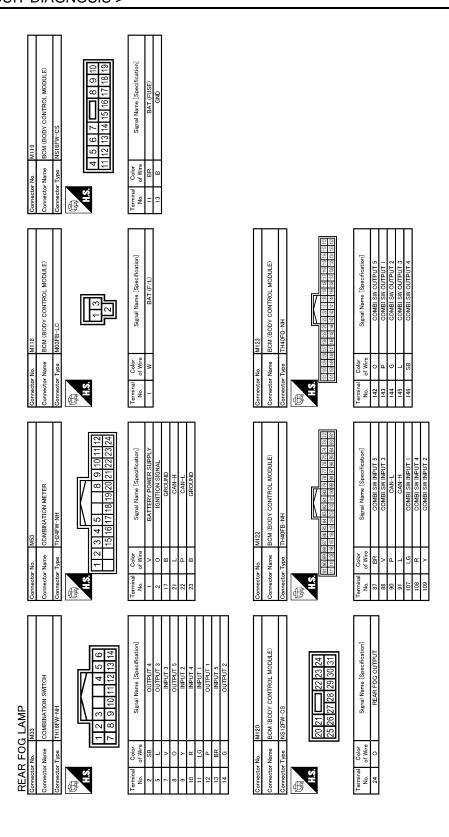
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REAR FOG LAMP

Cornector No	Cornector No. M24	A B C C
Tam	Non	E
Connector No. E106 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4 LIS	Cornector No. M7 Cornector Type TH80MW-CS16-TM4 Cornector Type TH80MW-CS16-TM4 Terminal Codor Signal Name [Specification] A5 O	F
		Н
Someton No. B70	Connector No. M6 Connector Name WRE TO WIRE Connector Type TH80MW-CS16-TM4 TH80MW-CS16-TM4	J K
		EXL
BI LAMP BI TO WIRE THBOFW-CSI 6-TM4 THBOFW-CSI 6-TM4 Signal Name (Specification)	M3 FUSE BLOCK (J/B) INSIZEW-CS 5C 4C 3C 2C 1C 10C 11C 10C 9C 8C 7C 6C Signal Name [Specification]	M
REAR FOG LAMP Connector No. Bit Connector Name WRE TO WIS Connector Type TH80FW-CS: INS. Color	Connector No. Connector Name Fig. Connector Type No. Conversion Color No. of Wire 12C O Teminal	0
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		'

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< ECU DIAGNOSIS INFORMATION >

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000004704242

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status						
FR WIPER HI	Other than front wiper switch HI	Off						
FK WIPEK NI	Front wiper switch HI	On						
ED WIDER LOW	Other than front wiper switch LO	Off						
FR WIPER LOW	Front wiper switch LO	On						
ED WACHED CW	Front washer switch OFF	Off						
FR WASHER SW	Front washer switch ON Other than front wiper switch INT							
FR WIPER INT	Other than front wiper switch INT	Off						
FR WIPER INT	Front wiper switch INT	On						
FR WIPER STOP	Front wiper is not in STOP position	Off						
FR WIPER STOP	Front wiper is in STOP position	On						
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position						
TURN SIGNAL R	Other than turn signal switch RH	Off						
TURN SIGNAL K	Turn signal switch RH	On						
TURN SIGNAL L	Other than turn signal switch LH	Off						
TURN SIGNAL L	Turn signal switch LH	On						
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off						
TAIL LAWF SW	Lighting switch 1ST or 2ND	On						
HI BEAM SW	Other than lighting switch HI	Off						
HI BEAIN SW	Lighting switch HI	On						
HEAD LAMP SW 1	Other than lighting switch 2ND	Off						
HEAD LAWF SW 1	Lighting switch 2ND	On						
HEAD LAMP SW 2	Other than lighting switch 2ND	Off						
NEAD LAWP SW 2	Lighting switch 2ND	On						
PASSING SW	Other than lighting switch PASS	Off						
PASSING SW	Lighting switch PASS	On						
AUTO LIGHT SW	Other than lighting switch AUTO	Off						
AUTO LIGHT SW	On							
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off						
RR FOG SW	Rear fog lamp switch OFF	Off						
KK FOG SW	Rear fog lamp switch ON	On						
DOOR SW-DR	Driver door closed	Off						
DOOK SW-DK	Driver door opened	On						
DOOR SW-AS	Passenger door closed	Off						
DOOK SW-MS	Passenger door opened	On						
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off						

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status						
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off						
OOD CW DK	Back door closed	Off						
OOOR SW-BK	Back door opened	On						
2011 0014 0144	Other than door lock and unlock switch LOCK Door lock and unlock switch LOCK							
CDL LOCK SW	Door lock and unlock switch LOCK	On						
	Other than door lock and unlock switch UNLOCK	Off						
CDL UNLOCK SW	Door lock and unlock switch UNLOCK	On						
(E) (O) (1 1 1 (O) M	Other than driver door key cylinder LOCK position	Off						
KEY CYL LK-SW	Driver door key cylinder LOCK position	On						
	Other than driver door key cylinder UNLOCK position							
(EY CYL UN-SW	Driver door key cylinder UNLOCK position							
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off						
	Off							
HAZARD SW	Hazard switch is ON	On						
REAR DEF SW	Rear window defogger switch OFF							
At models with NAVI this item is not monitored.	Real willdow delogger switch Off							
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off						
R CANCEL SW	NOTE: The item is indicated, but not monitored.	Off						
TR/BD OPEN SW	Back door opener switch OFF	Off						
N/BD OPEN 3W	While the back door opener switch is turned ON	On						
RNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off						
DVE LOCK	LOCK button of the Intelligent Key is not pressed	Off						
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On						
	UNLOCK button of the Intelligent Key is not pressed	Off						
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On						
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off						
N/E BANIO	PANIC button of the Intelligent Key is not pressed	Off						
RKE-PANIC	PANIC button of the Intelligent Key is pressed	On						
	UNLOCK button of the Intelligent Key is not pressed	Off						
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On						
	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off						
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On						
ADTION OF YOUR	Bright outside of the vehicle	Close to 5 V						
PTICAL SENSOR	Dark outside of the vehicle	Close to 0 V						
	Driver door request switch is not pressed	Off						
REQ SW -DR	Driver door request switch is pressed	On						
	Passenger door request switch is not pressed	Off						
REQ SW -AS	Passenger door request switch is pressed	On						

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status					
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off					
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off					
REQ SW -BD/TR	Back door request switch is not pressed	Off					
REQ SW -DD/TR	Back door request switch is pressed	On					
DUIGUL OW							
PUSH SW	Push-button ignition switch (push switch) is pressed	On					
1011 511/2 5/5							
IGN RLY2 -F/B	Ignition switch in ON position	On					
ACC DLV E/D	O#						
ACC RLY -F/B	Off						
CLUCH SW NOTE:	The clutch pedal is not depressed	Off					
At A/T models this item is not monitored.	The clutch pedal is depressed	On					
DDAKE SW 4	Stop lamp switch 1 signal circuit is open	Off					
BRAKE SW 1	On						
DDAKE OW O	The brake pedal is not depressed	Off					
BRAKE SW 2	The brake pedal is depressed	On					
DETE/CANCL SW NOTE:	Selector lever in P position (A/T models) The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off					
At M/T models with SynchroR- ev Match mode this item is not monitored.	Selector lever in any position other than P (A/T models) The clutch pedal is not depressed (M/T models without SynchroRev Match mode)	On					
SFT PN/N SW NOTE:	 Selector lever in any position other than P and N (A/T models) Control lever in any position other than neutral position (M/T models with SynchroRev Match mode) 	Off					
At M/T models without SynchroRev Match mode this item is not monitored.	Selector lever in P or N position (A/T models) Control lever in neutral position (M/T models with SynchroRev Match mode)	On					
S/L LOCK	Steering is unlocked	Off					
5/L -LOCK	LOCK Steering is unlocked Steering is locked						
0// 1/NII 001/	Steering is locked	Off					
S/L -UNLOCK	Steering is unlocked	On					
0/L DEL AV. 5/2	Ignition switch in OFF or ACC position	Off					
S/L RELAY-F/B	Ignition switch in ON position	On					
Driver door is unlocked		Off					
UNLK SEN -DR	On						
	Push-button ignition switch (push-switch) is not pressed	Off					
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On					
	Ignition switch in OFF or ACC position	Off					
IGN RLY1 -F/B	Ignition switch in ON position	On					
	Selector lever in any position other than P	Off					
DETE SW -IPDM	Selector lever in P position	On					

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status						
CET DN IDDM	 Selector lever in any position other than P and N (A/T models) The clutch pedal is not depressed (M/T models) 	Off						
SFT PN -IPDM	 Selector lever in P or N position (A/T models) The clutch pedal is depressed (M/T models) 	On						
SFT P -MET	Selector lever in any position other than P	Off						
SFIP-WEI	Selector lever in P position Selector lever in any position other than N							
SFT N -MET	Off							
SFI IN -IVIET	Selector lever in N position							
	Engine stopped	Stop						
ENGINE STATE	While the engine stalls	Stall						
ENGINE STATE	At engine cranking	Crank						
	Engine running	Run						
C/L LOCK IDDM	Steering is unlocked	Off						
S/L LOCK-IPDM	Steering is locked	On						
C/L LINILY IDDM	Steering is locked	Off						
S/L UNLK-IPDM	On							
O# DELAY DEO	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off						
S/L RELAY-REQ	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On						
VEH SPEED 1	While driving	Equivalent to speedometer reading						
VEH SPEED 2	While driving	Equivalent to speedometer reading						
	Driver door is locked	LOCK						
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY						
	Driver door is unlocked	UNLOCK						
	Passenger door is locked	LOCK						
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY						
	Passenger door is unlocked	UNLOCK						
ID OK FLAG	Steering is locked	Reset						
ID OK FLAG	Steering is unlocked	Set						
PRMT ENG STRT	The engine start is prohibited	Reset						
PRIVIT ENG STRT	The engine start is permitted	Set						
PRMT RKE STRT	NOTE:							
ICEN ON OLOT	The Intelligent Key is not inserted into key slot	Off						
KEY SW -SLOT	On							
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key						
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_						
CONEDMID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet						
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done						

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

Α

В

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Monitor Item	Condition	Value/Status
CONFIDM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
JONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
COM IKW ID I	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
IF 4	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
ir 3	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
IP Z	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
IFI	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
D REGST FL1	ID of front LH tire transmitter is registered	Done
D REGOTTET	ID of front LH tire transmitter is not registered	Yet
D REGST FR1	ID of front RH tire transmitter is registered	Done
5 K2001 1 K1	ID of front RH tire transmitter is not registered	Yet
D REGST RR1	ID of rear RH tire transmitter is registered	Done
D REGOT RICT	ID of rear RH tire transmitter is not registered	Yet
D REGST RL1	ID of rear LH tire transmitter is registered	Done
D REGOT RET	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
VV (((((((((((((((((((Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLLIN	Tire pressure warning alarm is sounding	On

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EXL

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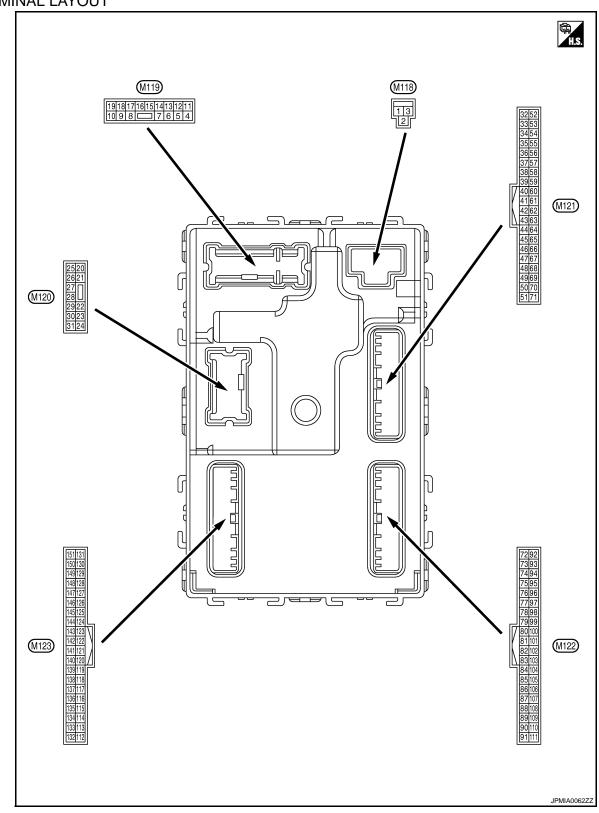
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

	nal No.	Description	1			Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch (OFF	12 V
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V
					mp battery saver is activated. or room lamp power supply)	0 V
4 (R)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V
(G)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V
8	Cround	All doors, fuel lid	Output	All doors, fuel	LOCK (Actuator is activated)	12 V
(V)	Ground	LOCK		lid	Other than LOCK (Actuator is not activated)	0 V
9	Cround	Driver door, fuel lid	Output	Driver door,	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V
11 (BR)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V
					OFF	0 V
4.4		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position.
14 (R)	Ground	switch illumination ground	Output	Tail lamp	ON	10 0 2 ms
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	JSNIA0010GB Battery voltage
(Y)						

D

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description			0 100	Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
17 (W)	Ground	Turn signal RH (Front and side)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V (V) 15 10 5 0 PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (O)	Ground	Turn signal LH (Front and side)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Room lamp timer	Output	Interior room	OFF	12 V
(V)	Ground	control	Output	lamp	ON	0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23	Crownd	Dook door ones	Output	Dock door	OPEN (Back door opener actuator is activated)	12 V
(L)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V
24* ¹	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
(O)	Ciodila		Japat		ON	12 V
					Turn signal switch OFF	0 V
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s
					ON	6.5 V 0 V
30 (R)	Ground	Luggage room lamp	Output	Luggage room lamp	OFF	12 V
()				******J=	OFF	IZ V

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value		
+	-	Signal name	Input/ Output		Condition	(Approx.)		
34	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB		
(G)	Giodila	na (–)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB		
35		Luggage room anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB		
(R)	Ground	na (+)		23.541	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
22		Danaharan		When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB		
38 (B)	Ground	Rear bumper antenna (–)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB		

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description			0 1111	Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
39	Ground	Rear bumper anten-	Output	When the back door request switch is oper-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(W)	Glound	na (+)	Output	ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47	0	Ignition relay (IPDM	Outrut	Inviting avoidab	OFF or ACC	12 V
(V)	Ground	E/R) control	Output	Ignition switch	ON	0 V
		round Starter relay control		Ignition switch ON (A/T mod-	When selector lever is in P or N position	12 V
52	Ground		Output	els)	When selector lever is not in P or N position	0 V
(SB)	Ground			Ignition switch	When the clutch pedal is depressed	Battery voltage
				ON (M/T mod- els)	When the clutch pedal is not depressed	0 V
					ON (Pressed)	0 V
61 (W)	Ground	Back door request switch	Input	Back door request switch	OFF (Not pressed)	(V) 15 10 5 0 JPMIA0016GB
64		Intelligent Key warn-		Intelligent Key	Sounding	0 V
(G)	Ground	ing buzzer	Output	warning buzzer	Not sounding	12 V
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	11.8 V 0 V
					ом (роог ореп)	U V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	А
+	color)	Signal name	Input/ Output		Condition	(Approx.)	\wedge
					Pressed	0 V	В
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB	C
						(V)	Е
		When Intelligent Key is in the passenger compartment	15 10 5 0	F			
72	Cround	Room antenna (-)		Ignition switch OFF		JMKIA0062GB	G
(L)		(Center console)			When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0	Н
						JMKIA0063GB	
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0	K
70		D		1		JMKIA0062GB	EXL
73 (P)	Ground	Room antenna (+) (Center console)	Output	Ignition switch OFF		(V) 15 10	M
					When Intelligent Key is not in the passenger compartment	10 5 0	Ν
						JMKIA0063GB	0

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
74	When the passenger door an-		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB			
(SB)	Ground	tenna (–)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
75	Passanger door an senger door re	When the passenger door request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB			
(BR)	Ground	tenna (+)	Output	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
76	Ground	Driver door antenna (–)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

Terminal No. Description (Wire color)		Description	1	On this are		Value	
+	–	Signal name	Input/ Output		Condition	(Approx.)	
77	Canada	Driver door antenna	When the driver door request		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
80 (GR)	Ground	NATS antenna amp (Built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
81 (W)	Ground	NATS antenna amp (Built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V	
83	Ground	Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(GR)		receiver communication	Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB	

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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
	Combination switch		Combination	Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	
	Ground	INPUT 3	Input	switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
		5 1 1 " ' ' ''		Push-button ig-	Pressed	0 V
89 BR)	Ground	Push-button ignition switch (Push switch)	Input	nition switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		_	
					OFF	0 V
92 LG) Groun	Ground	ound Key slot illumination		Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
				6.5 V		
					ON	12 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	0.000	7.00 (0.0)	Carpar	.g	ACC or ON	12 V
96* ² (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Orouna	tion No. 1	put	Otooning look	UNLOCK status	12 V
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)	Oround	tion No. 2	Прис	Oleching lock	UNLOCK status	0 V
	Selector lever P posi-		0.1	P position	0 V	
99* ³		tion switch (A/T mod- els)		Selector lever	Any position other than P	12 V
(R)* ² Ground (BR)* ⁴	switch (M/T models	Input	Clutch pedal	OFF (Clutch pedal is depressed)	0 V	
		without SynchroRev Match mode)		position switch	ON (Clutch pedal is not depressed)	Battery voltage
					ON (Pressed)	0 V
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (Pressed)	0 V
101 (Y)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 0 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Outout	Ignition switch	OFF or ACC	0 V
(O)	Ground	lay control	Output	ignition Switch	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V
106			Output	Ignition switch	OFF or ACC	12 V
(W)	Cround	power supply	Calput	ignition switch	ON	0 V

< ECU DIAGNOSIS INFORMATION >

Terminal No. Description					Value		
(Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	1.3 V (V) 15 10 5 0 JPMIA0036GB 1.3 V	
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
108	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R)	INPUT 4		switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0036GB	
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color) Description				Value		
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (Y) Ground	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status LOCK or UNLOCK	12 V (V) 15 10 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
113	Ground	Optical sensor	Input	lgnition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical serisor	Прис	ON	When dark outside of the vehicle	Close to 0 V
114* ⁵	Caronno	Clutch interlock	(Input	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Cround	switch		switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Ground	Stop lamp switch 2	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(P)		,	, ,	switch	ON (Brake pedal is depressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Input	When the Intellig	gent Key is inserted into key	12 V
(R)	Cround	. toy olot owiton	прис	When the Intelligence key slot	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)			F ***	3	ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

Terminal No. Description (Wire color)		Description	ı		• ""	Value
+	- color)	Signal name	Input/ Output		Condition	(Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0
					ON (Door open)	11.8 V 0 V
						(V)
130* ⁶ (L)		Input	Ignition switch	Rear window defogger switch OFF	15 10 5 0	
						JPMIA0012GB
				Rear window defogger switch ON	0 V	
132 (Y)	Ground	Power window switch communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 JPMIA0013GB
						10.2 V
				Ignition switch C	T	12 V
					ON (Tail lamps OFF)	9.5 V
				Push-button ig- nition switch il- lumination		NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
133 (G) Ground	Ground	Push-button ignition switch illumination	Output		ON (Tail lamps ON)	(V) 15 10 10 0
					055	JPMIA0159GB
	-				OFF	0 V
	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage 0 V
134 (GR)		İ		idilip	ON	U V
(GR) 137	Ground	Receiver and sensor	Input	Ignition switch C	DN	0 V
(GR)		Receiver and sensor ground Receiver and sensor	Input	Ignition switch C	OFF	0 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s
(L)	Glodila	er communication	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Selector lever P/N		Selector lever	P or N position	12 V
		position (A/T models)	Input	Selector lever	Except P and N positions	0 V
140* ⁷ (G)	Ground	Transmission range switch (M/T models		Ignition switch	Control lever in neutral position	Battery voltage
		with SynchroRev Match mode)		ON	Control lever in any position other than neutral	0 V
					ON	0 V
141 (Y)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GE
					OFF All switches OFF	12 V 0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V)
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10
(O)	Cidana	OUTPUT 5	Output	(Wiper intermittent dial 4)	Turn signal switch RH	0
					All switches OFF (Wiper intermittent dial 4)	10.7 V 0 V
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB

< ECU DIAGNOSIS INFORMATION >

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	nal No. color)	Description	Г		O a malitica m	Value		
+	_	Signal name	Input/ Output		Condition	(Approx.)		
					All switches OFF (Wiper intermittent dial 4)	0 V		
					Front washer switch ON (Wiper intermittent dial 4)	(V)		
144 (G)	Ground	Combination switch OUTPUT 2	Output	Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6		low with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5		15 10 5 0 2 ms JPMIA0033GB
					All switches OFF	0 V		
					Front wiper switch INT			
				Combination	Front wiper switch LO	(V)		
145	Ground	Combination switch	tch Output (Misor intermit	10				
(L)	Cround	OUTPUT 3	Guipat	(Wiper intermittent dial 4) Rear fog lamp switch ON		0		
					All switches OFF	0 V		
					Lighting switch 2ND			
				Combination	Lighting switch PASS	(V) 15		
146 (SB)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit- tent dial 4)	Turn signal switch LH	10 5 0		
149 (W)	Ground	Tire pressure warning check switch	Input		_	12 V		
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB		
					ON (Door open)	0 V		
151	Ground	Rear window defog-	Output	Rear window	Active	0 V		
(G)		ger relay control	1	defogger	Not activated	Battery voltage		

^{• *1:} For Canada

^{• *2:} A/T models

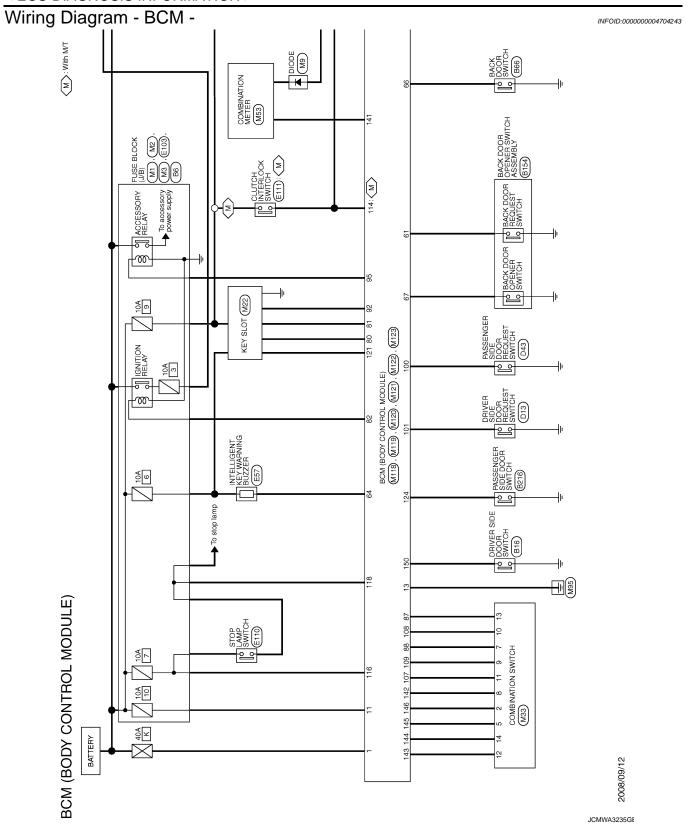
^{• *3:} Except M/T models with SynchroRev Match mode

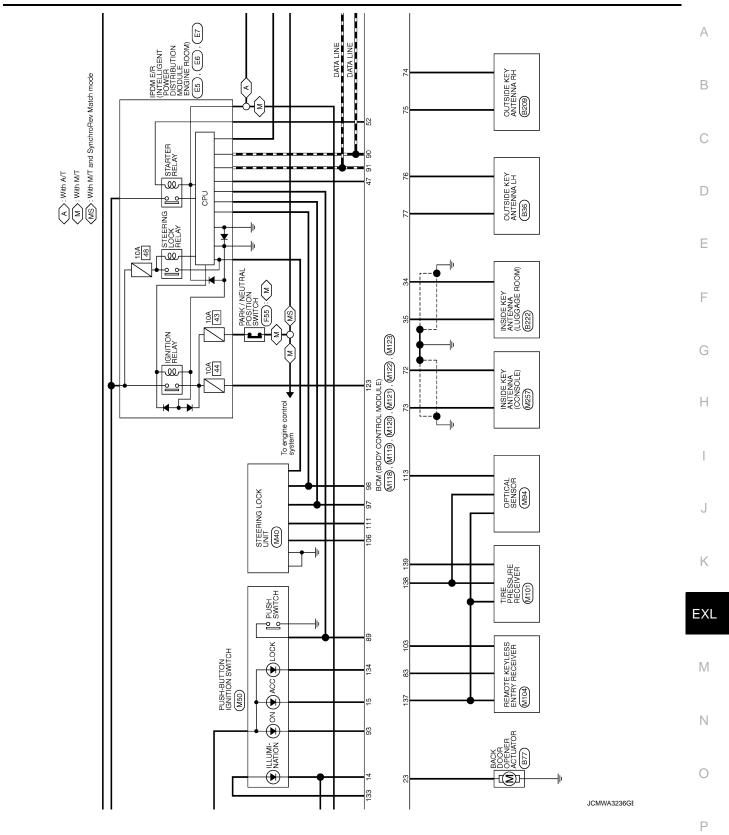
 ^{*4:} M/T models without SynchroRev Match mode

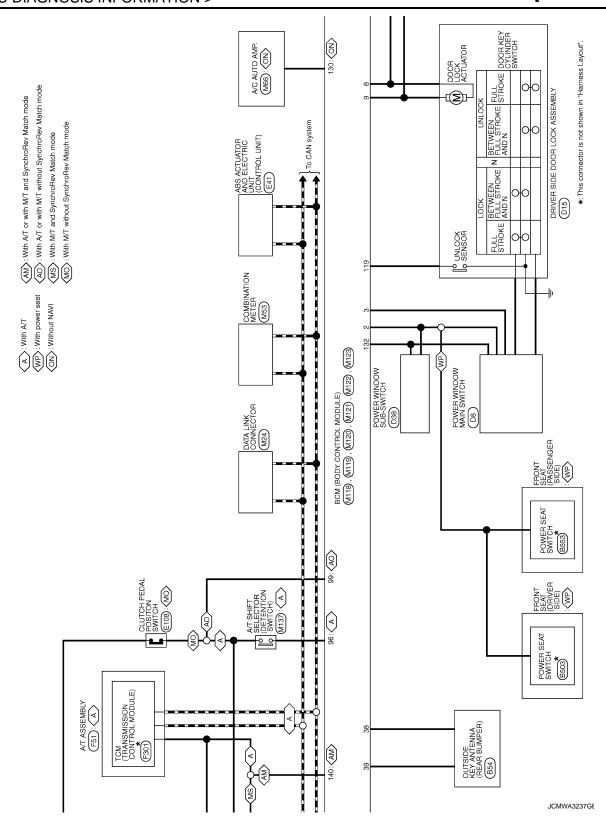
^{• *5:} M/T models

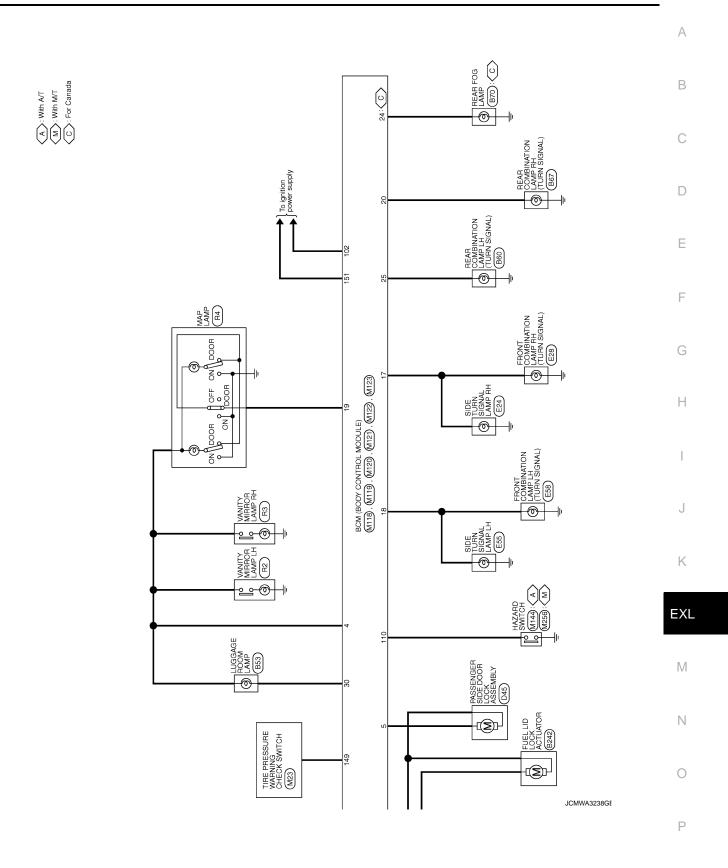
^{• *6:} Without NAVI

^{• *7:} Except M/T models without SynchroRev Match mode









Connector No. M120	Connector Name BCM (BODY CONTROL MODULE) Connector Type NS12FW-CS	H.S. 20 21 C 22 23 24 25 26 27 28 29 30 31	Terminal Color C																			
M119	THE BCM (BODY CONTROL MODULE) TO INSIGEW-CS	4 5 6 7 6 9 10 11 12 13 14 15 16 17 18 19	Signal Nam Fra INTERIOR ROOM PASSENGER DO ALL DOOR, FUE DRIVER DOOR, FUE BA	P PUSH-BUTTON IGNITION SWILL GND Y ACC IND TURN SIGNAL IN (FRONT, SIDE) O TURN SIGNAL IN (FRONT, SIDE) V ROOM LAMP TIMER CONT	CON	BR PUSH SW P CAN-L	CAN-H		O ACC RELAY CONT Y AT SHIFT SELECTOR POWER SUPPLY	L S/L CONDITION 1	ASCD CLUTCH SV	GR PASSENGER DOOR REQUEST SW	H	O BLOWER FAN MOTOR RELAY CONT	T	-G COMBI SW INPUT 1	R COMBI SW INPUT 4	55	P HAZARD SW	Y S/L UNIT COMM		
Connector No.	Connector Name Connector Type	E S.	le l	15 17 19 19 19 19 19 19 19 19 19 19 19 19 19	Н	89 06	Н	${\mathbb H}$	96	Н	Н	001	Н	702	╀	Ē	108	Н	+	Ξ		
M118	BCM (BODY CONTROL MODULE) M03FB-LC	113	Signal Name [Specification] Signal Name [Specification] POWER WINDOW POWER SUPPLY(BAT) POWER WINDOW POWER SUPPLY(RAP)		M122	BCM (BODY CONTROL MODULE)	TH40FB-NH			89 88 87 88 85 84 85 84 83 82 81 80 79 78 77 76 75 74 73 72 72 72 17 17 17 17 17 17 17 17 17 17 17 17 17		L	Signal	ROOM ANT-	PASSE		DRIVER DOOR ANT-		=	/ IMMOBI ANTENNA SIGNAL	KEYL	R COMBI SW INPUT 5
Connector No.	Connector Name Connector Type	S. E.	No. of Wire 1 W 2 W 3 Y		Connector No.	Connector Name	Connector Type	修	ĦS.	91 90		Ferminal Color		72 24	F	H	76 V	Н	+	18 88 W W	ŀ	87 BR
BCM (BODY CONTROL MODULE) Connector No. M33	COMBINATION SWITCH THISEW-NH	7 2 3 10 11 12 13 14	Signal Name [Specification] OUTPUT 4 OUTPUT 3 NAMUT 3 OUTPUT 5 MANUT 2 MANUT 2	MPUT 1 OUTPUT 1 INPUT 1 OUTPUT 2	M121	BCM (BODY CONTROL MODULE)	TH40FGY-NH			47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 67 66 66 66 64 63 62 61 60 59 58 57 56 55 54 53 52		[[leo	LUGGAGE ROOM ANT=	BACK DOOR ANT-	BACK DOOR ANT+	IGN RELAY (IPDM E/R) CONT	STARTER RELAY CONT	BACK DOOR OPENER REQUEST SW	I-KEY WARN BUZZER (ENG ROOM) BACK DOOR SW	BACK DOOR OPENER SW	
BCM (BOD Connector No.	Connector Name Connector Type		0 p	x 2] 9 R 2	Connector No.	Connector Name	Connector Type			51 50 49 48 71 70 69 68		Color	_	<u>ه</u> ۵	£ @	W	۸	SB:	Α «	σ a	GR :	
BCI	Connec	E S.	Terminal No. 2 2 5 7 7 9 8	2 2 2 2 4	Connec	Connec	Connec	Œ	HS			Terminal	No.	34	8 8	38	47	25	61	64	67	

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134	3	LOCK IND
137	d	RECEIVER/SENSOR GND
138	۸	RECEIVER/SENSOR POWER SUPPLY
139	٦	TIRE PRESSURE RECEIVER COMM
140	5	[abon hatch POSITION SW [With M/T and SynchroRev Metch model]
140	5	SHIFT N/P [With A/T]
141	٨	SECURITY INDICATOR
142	0	COMBI SW OUTPUT 5
143	d	1 LINALINO MS IBMOD
144	5	COMBI SW OUTPUT 2
145	7	E TURTUO WE IBMOD
146	ВS	COMBI SW OUTPUT 4
149	М	TIRE PRESSURE WARN CHECK SW
150	ЫĐ	WS AOOD REVIRE
151	5	REAR WINDOW DEFOGGER RELAY CONT

BCM (BODY CONTROL MODULE)	M123	BCM (BODY CONTROL MODULE)	TH40FG-NH		Signal Name [Specification]	OPTICAL SENSOR	CLUTCH INTERLOCK SW	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	REAR DEFOGGER SW	POWER WINDOW SW COMM	CHANGE I II WE INCITING INCITING LIGHT
(BO	No.	Name	Type	150 128 128 148 148 148 148 148 148 148 148 148 14	Color of Wire	0	œ	SB	а	SB	ď	Μ	PC	_	Υ	ć
BCM	Connector No.	Connector Name	Connector Type	€ H.S.	Terminal No.	113	114	116	118	119	121	123	124	130	132	133

Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

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INFOID:0000000004704244

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent Starter control relay signal Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	 500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)

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Display contents of CONSULT	Fail-safe	Cancellation					
B2607: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status has becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal) 					
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN) 					
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status					
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) 					
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)					
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)					
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal					
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal					
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal					
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization					
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled Status 1 Clutch switch signal (CAN from ECM): ON Clutch interlock switch signal: OFF (0 V) Status 2 Clutch switch signal (CAN from ECM): OFF Clutch interlock switch signal: ON (Battery voltage)					
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)					

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by 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 activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF \Rightarrow ON and front wiper switch is INT position, BCM operates a fail-safe control.

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[XENON TYPE]

DTC Inspection Priority Chart

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If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

1 B2562: LOW VOLTAGE 2	Priority	DTC
**DITTON OF THE PROPERTY OF TH	1	B2562: LOW VOLTAGE
	2	
 B2014: CHAIN OF S/L-BCM B2555: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS B2609: S/L STATUS B2609: S/L STATUS B2609: S/E STARTER RELAY B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: SNEERING LOCK UNIT B2601: SNEERING LOCK UNIT B2601: SIL STATUS B2611: SCL STATUS B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2618: BCM B2611: PUSH-BTN IGN SW 	3	 B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM
 B26E8: CLUTCH SW B26E9: S/L STATUS B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	4	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2606: S/L RELAY B2609: STARTER RELAY B2609: S/L STATUS B2609: S/L STATUS B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: STEERING LOCK UNIT B2602: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2611: VEHICLE TYPE B2628: CLUTCH SW B2629: S/L STATUS B2626: KEY REGISTRATION C1729: VHCL SPEED SIG ERR

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

Priority	DTC	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR	Α
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL	В
	• C1708: [NO DATA] FL	
	• C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	
	• C1711: [NO DATA] RL	С
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	D
	C1715: [CHECKSUM ERR] RL	D
5	C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR C1740: [PRESSDATA ERR] RR	E
	C1719: [PRESSDATA ERR] RL C1720: [CODE ERR] EI	
	• C1720: [CODE ERR] FL	
	• C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR C1723: [CODE ERR] RL	F
	• C1723. [CODE ERR] RL • C1724: [BATT VOLT LOW] FL	
	C1724: [BATT VOLT LOW] FE C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] RR	
	C1727: [BATT VOLT LOW] RL	G
	C1734: CONTROL UNIT	
-		
	B2621: INSIDE ANTENNA	Н
6	B2622: INSIDE ANTENNA	
	B2623: INSIDE ANTENNA	

DTC Index

NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-17, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter	Intelligent Key warning lamp ON	Tire pressure monitor warning	Refer- ence page
		•Vehicle condition		lamp ON	
No DTC is detected. further testing					_
may be required.			_	_	
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-38
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-39
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40
B2013: ID DISCORD BCM-S/L	×	×	_	_	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	_	_	SEC-51
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-45
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-48
B2195: ANTI SCANNING	×	_	_	_	SEC-49
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	SEC-54

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
B2556: PUSH-BTN IGN SW		×	×		<u>SEC-56</u>
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-58</u>
B2560: STARTER CONT RELAY	×	×	×	_	SEC-59
B2562: LOW VOLTAGE	_	×	_	_	BCS-41
B2601: SHIFT POSITION	×	×	×	_	SEC-60
B2602: SHIFT POSITION	×	×	×	_	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-66
B2604: PNP SW	×	×	×	_	SEC-69
B2605: PNP SW	×	×	×	_	SEC-71
B2606: S/L RELAY	×	×	×	_	SEC-73
B2607: S/L RELAY	×	×	×	_	SEC-74
B2608: STARTER RELAY	×	×	×	_	SEC-76
B2609: S/L STATUS	×	×	×	_	SEC-78
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260B: STEERING LOCK UNIT	_	×	×	_	SEC-82
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-83
B260D: STEERING LOCK UNIT	_	×	×	_	SEC-84
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-85
B2612: S/L STATUS	×	×	×	_	<u>SEC-90</u>
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55
B2616: IGN RELAY CIRC	_	×	×	_	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	_	<u>SEC-94</u>
B2618: BCM	×	×	×	_	PCS-61
B2619: BCM	×	×	×	_	SEC-96
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-97</u>
B2622: INSIDE ANTENNA	_	×	_	_	DLK-55
B2623: INSIDE ANTENNA	_	×	_	_	DLK-57
B26E8: CLUTCH SW	×	×	×	_	SEC-86
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	SEC-88
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-89
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	<u>WT-16</u>
C1706: LOW PRESSURE RR	_	_	_	×	<u>vv 1-10</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	MT 40
C1710: [NO DATA] RR	_	_	_	×	<u>WT-18</u>
C1711: [NO DATA] RL	_	_	_	×	

< ECU DIAGNOSIS INFORMATION >

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
C1712: [CHECKSUM ERR] FL	_	_	_	×	
C1713: [CHECKSUM ERR] FR	_	_	_	×	WT-21
C1714: [CHECKSUM ERR] RR	_	_	_	×	<u> </u>
C1715: [CHECKSUM ERR] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-24
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>VV 1-24</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1720: [CODE ERR] FL	_	_	_	×	
C1721: [CODE ERR] FR	_	_	_	×	WT 26
C1722: [CODE ERR] RR	_	_	_	×	<u>WT-26</u>
C1723: [CODE ERR] RL	_	_	_	×	
C1724: [BATT VOLT LOW] FL	_	_	_	×	
C1725: [BATT VOLT LOW] FR	_	_	_	×	WT 00
C1726: [BATT VOLT LOW] RR	_	_	_	×	<u>WT-29</u>
C1727: [BATT VOLT LOW] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-32
C1734: CONTROL UNIT	_	_	_	×	<u>WT-34</u>

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< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item		Condition	Value/Status
RAD FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 - 100 %
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL&CLR REQ	Lighting switch OFF		Off
TAILOCLINILQ	Lighting switch 1ST, 2ND, HI	or AUTO (Light is illuminated)	On
	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND HI or AU	TO (Light is illuminated)	On
	Daytime running light system	is operated (With daytime running light system)	OII
III III DEO	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI		On
FR FOG REQ	NOTE: The item is indicated, but not	monitored.	Off
		Front wiper switch OFF	Stop
FR WIP REQ	Inviting position ON	Front wiper switch INT	1LOW
	Ignition switch ON	Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
ION DIVI DEO	Ignition switch OFF or ACC		Off
IGN RLY1 -REQ	Ignition switch ON		On
ION BLV	Ignition switch OFF or ACC		Off
IGN RLY	Ignition switch ON		On
DU IOU IOW	Release the push-button igniti	ion switch	Off
PUSH SW	Press the push-button ignition	switch	On
	Ignition switch ON	Selector lever in any position other than P or N (A/T models)	Off
INITED/NID C\A/		Release clutch pedal (M/T models)	
INTER/NP SW	Ignition switch ON	Selector lever in P or N position (A/T models) Depress clutch pedal (M/T models)	On
	Ignition switch ON		Off
ST RLY CONT	At engine cranking		On
	Ignition switch ON		Off
IHBT RLY -REQ	At engine cranking		On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Con	Value/Status	
	Ignition switch ON	Off	
	At engine cranking	INHI ON \rightarrow ST ON	
ST/INHI RLY	The status of starter relay or starter co battery voltage malfunction, etc. when control relay is OFF	UNKWN	
DETENT SW	Ignition switch ON	 Press the selector button with selector lever in P position Selector lever in any position other than P 	Off
	Release the selector button with selection NOTE: Fixed On for M/T models	On	
	None of the conditions below are pres	ent	Off
S/L RLY -REQ	Open the driver door after the ignition onds) Press the push-button ignition switce Depress the clutch pedal when the second or secon	On	
	Steering lock is activated	LOCK	
S/L STATE	Steering lock is deactivated	UNLOCK	
	[DTC: B210A] is detected	UNKWN	
DTRL REQ	Daytime running light system is not op	Off	
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light system is operated	On	
OIL D CW	Ignition switch OFF, ACC or engine ru	Open	
OIL P SW	Ignition switch ON	Close	
HOOD SW	Close the hood	Off	
HOOD SW	Open the hood	On	
HL WASHER REQ	NOTE: The item is indicated, but not monitore	Off	
	Not operation	Off	
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHICLE SE	On	
HODN CHIED	Not operating	Off	
HORN CHIRP	Door locking with Intelligent Key (horn	On	
CRNRNG LMP REQ	NOTE: The item is indicated, but not monitore	Off	

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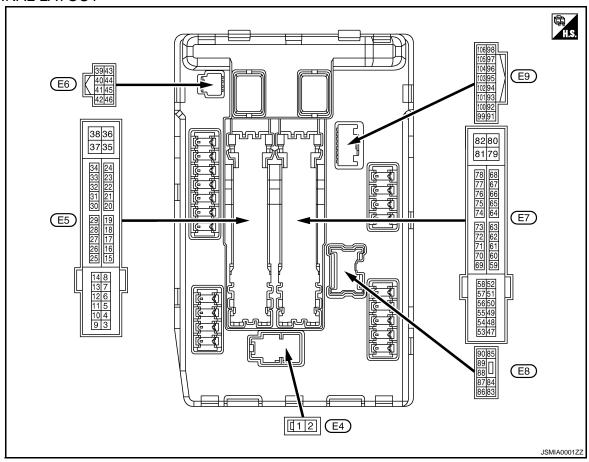
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< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Description				Value
(Wire color)		Signal name	Input/ Output	Condition		(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (L)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
4	Craund	Front wiper LO	Output	Ignition switch ON	Front wiper switch OFF	0 V
(V)	Ground				Front wiper switch LO	Battery voltage
5	Ground	Front winer III	Output Ignition switch ON	Front wiper switch OFF	0 V	
(L)	Ground	Front wiper HI		ŎN	Front wiper switch HI	Battery voltage
6 ^{*1} (R)	Ground	Daytime running light relay	Input	Ignition switch OFF		Battery voltage
-		Illuminations*1		1	Lighting switch OFF	0 V
7 (R) Ground	Ground	Tail, license plate lamps & illuminations*2	Output	Ignition switch ON	Lighting switch 1ST	Battery voltage
		Steering lock unit power supply	it power Output	Ignition switch OFF	A few seconds after opening the driver door	Battery voltage
11 (BR) Groun	Ground			Ignition switch LOCK	Press the push-button ignition switch	Battery voltage
				Ignition switch A	CC or ON	0 V
12 (B/W)	Ground	Ground	_	Ignition switch ON		0 V

Terminal No.		Description				Value	
(Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
13		F	F .1.		Approximately 1 second or more after turning the ignition switch ON		0 V
(Y)	Ground	Fuel pump power sup- ply	Output	 Approximately 1 second after turning the ignition switch ON Engine running 		Battery voltage	
16				Ignition switch	Front wiper stop position	0 V	
(LG)	Ground	Front wiper auto stop	Input	ON Any position other than front wiper stop position		Battery voltage	
19	Ground	Ignition relay power	Output	Ignition switch OFF		0 V	
(W)	Ground	supply	Output	Ignition switch Of	N	Battery voltage	
25	Cround	Ignition relay power	Output	Ignition switch OF	F	0 V	
(G)	Ground	supply	Output	Ignition switch Of	N	Battery voltage	
27	C = 2	Ignition relevants	lpan: 4	Ignition switch OF	F or ACC	Battery voltage	
(Y)	Ground	Ignition relay monitor	Input	Ignition switch Of	N	0 V	
28	0	Push-button ignition	Le contra	Press the push-b	utton ignition switch	0 V	
(L)	Ground	switch	Input	Release the push-button ignition switch		Battery voltage	
		d Starter relay control	Input	A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V	
30 (GR) Ground	Ground				Selector lever P or N (Ignition switch ON)	Battery voltage	
					Release the clutch pedal	0 V	
				M/T models	Depress the clutch pedal	Battery voltage	
32	0	Steering lock unit condi-	Input	Steering lock is a	ctivated	0 V	
(L)	Ground	tion-1	Input	Steering lock is deactivated		Battery voltage	
33		Steering lock unit condi-		Steering lock is activated		Battery voltage	
(P)	Ground	tion-2	Input	Steering lock is deactivated		0 V	
36 (G)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	
39 (P)	_	CAN-L	Input/ Output	_		_	
40 (L)	_	CAN-H	Input/ Output	_		_	
41 (B/W)	Ground	Ground	_	Ignition switch Of	٧	0 V	
42	Ground	Cooling fan relay con-	Input	Ignition switch OFF or ACC		0 V	
(Y)	Cround	trol	mpat	Ignition switch Of	N .	0.7 V	
43 ^{*3} (SB)	Ground	A/T shift selector (Detention switch)	Input	Ignition switch	Press the selector button (selector lever P) Selector lever in any position other than P	Battery voltage	
					Release the selector button (selector lever P)	0 V	
44	Ground	Horn relay control	Input	The horn is deact	ivated	Battery voltage	
(W)	Ground	FIOH TEIAY CONTROL	mput	The horn is activa	ated	0 V	
45	0:	Anti theft horn relay	lee: 1	The horn is deactivated		Battery voltage	
(G) Ground		control	Input	The horn is activated		0 V	

Terminal No. (Wire color)		Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
	46 (V) Ground	Starter relay control	Input	A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V
					Selector lever P or N (Ignition switch ON)	Battery voltage
				M/T models	Release the clutch pedal	0 V
					Depress the clutch pedal	Battery voltage
					A/C switch OFF	0 V
48 (L)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage
40		ECM relay power supply	Output	Ignition switch OFF (More than a few seconds after turning ignition switch OFF)		0 V
49 (O)	Ground			 Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) 		Battery voltage
51	Cround	Ignition relay power	Output	Ignition switch OFF		0 V
(Y)	Ground	supply	Output	Ignition switch ON		Battery voltage
53		ECM relay power our		Ignition switch OFF (More than a few seconds after turning ignition switch OFF)		0 V
(W)	(iround)		Output	Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF)		Battery voltage
5 4		-		Ignition switch O (More than a few tion switch OFF)	FF seconds after turning igni-	0 V
54 (V)	V) Ground Throttle control motor relay power supply		Output	Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF)		Battery voltage
55 (SB)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage
56	Ground	Ignition relay power	Output	Ignition switch OFF		0 V
(LG)	Cround	supply	Cuipui	Ignition switch ON		Battery voltage
57	Ground	Ignition relay power	Output	Ignition switch OFF		0 V
(G)	2.03.13	supply		Ignition switch ON		Battery voltage
58 ^{*3}	Ground	Ignition relay power	Output	Ignition switch OFF		0 V
(P)		supply	•	Ignition switch O		Battery voltage
69		round ECM relay control	Output	Ignition switch O (More than a few tion switch OFF)	FF seconds after turning igni-	Battery voltage
(BR)	Ground			Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF)		0 - 1.5 V

Terminal No. (Wire color)		Description				Value	
+	e color)	Signal name	Input/ Output			(Approx.)	
70 (O)	Ground	Throttle control motor relay control	Output	Ignition switch ON \rightarrow OFF		0 -1.0 V ↓ Battery voltage ↓ 0 V	
				Ignition switch Of		0 - 1.0 V	
73 ^{*4} (GR)	Ground	Ignition relay power supply	Output	Ignition switch OF		0 V	
				Ignition switch Of		Battery voltage	
74 (G)	Ground	Ignition relay power supply	Output	Ignition switch OF		0 V	
		оцрріу		Ignition switch Of		Battery voltage	
75 (SB)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V	
(00)					Engine running	Battery voltage	
		d Power generation command signal	Output	Ignition switch ON		(V) 6 4 2 0 → 2ms JPMIA0001GB	
				40% is set on "AC TOR DUTY" of "E	CTIVE TEST", "ALTERNA- :NGINE"	(V) 6 4 2 0 2ms JPMIA0002GB 3.8 V	
				80% is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2 2 2 2 3 2 3 3 4 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
77 (R)	Ground	Fuel pump relay control	Output	Approximately 1 second after turning the ignition switch ON Engine running		0 - 1.0 V	
(. 1)				Approximately 1 sing the ignition sw	second or more after turn- vitch ON	Battery voltage	
80 (W)	Ground	Starter motor	Output	At engine cranking		Battery voltage	
(**)				Ignition switch	Lighting switch OFF	0 V	
83 (R)	Ground	Headlamp LO (RH)	Output	Ignition switch ON Lighting switch OFF Lighting switch 2ND Daytime running light system activated*1		Battery voltage	

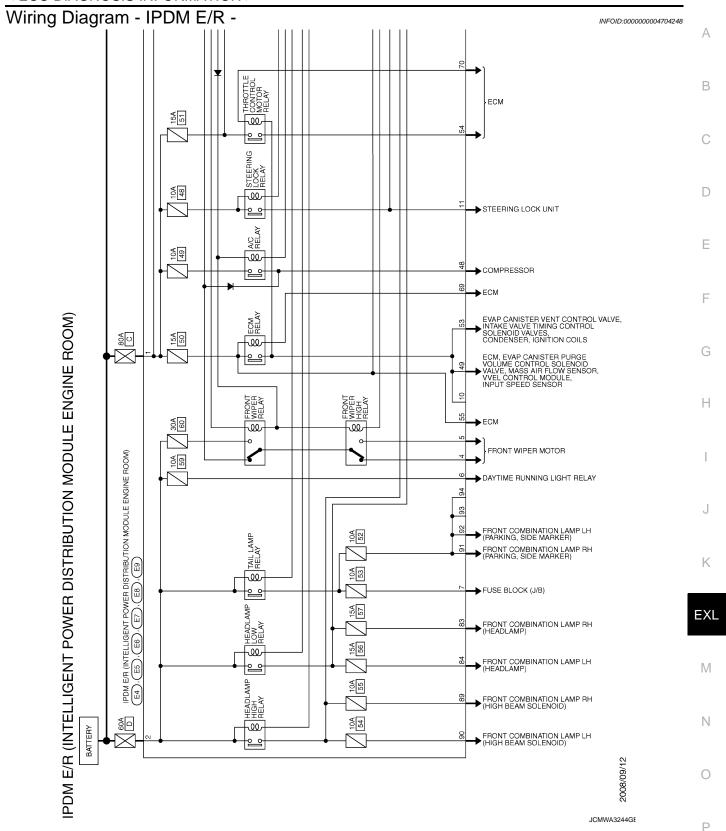
Terminal No.		Description				Value	
+ (Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
		Headlamp LO (LH)	Output	Ignition switch ON	Lighting switch OFF	0 V	
84 (P)	Ground				Lighting switch 2ND	Detterminations	
(1)				Daytime running	light system activated*1	Battery voltage	
88 (G)	Ground	Washer pump power supply	Output	Ignition switch ON		Battery voltage	
89				Ignition switch	Lighting switch OFF	0 V	
(BR)	Ground	Headlamp HI (RH)	Output	ON	Lighting switch HILighting switch PASS	Battery voltage	
90		Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch OFF	0 V	
(LG)	Ground				Lighting switch HILighting switch PASS	Battery voltage	
91 ^{*2}	Ground	Parking lamp (RH)	0	Output Ignition switch	Lighting switch OFF	0 V	
(P)	Ground	Faiking lamp (KH)	Output	ON	Lighting switch 1ST	Battery voltage	
92 ^{*2}	Ground	Parking lamp (LH)	Output	Ignition switch	Lighting switch OFF	0 V	
(O)	Ground	Faiking lamp (LH)	Output	ON	Lighting switch 1ST	Battery voltage	
97 (V)	Ground	Cooling fan control	Output	Engine idling		0 - 5 V	
104	Ground	und Hood switch	Input	Close the hood		Battery voltage	
(LG)	Ground			Open the hood		0 V	
				Parking lamp	Turned OFF	Battery voltage	
105 ^{*1} (SB)	Ground	Daytime running light relay control	Output	Side maker lamp License plate lamp Tail lamp	Turned ON	0 V	

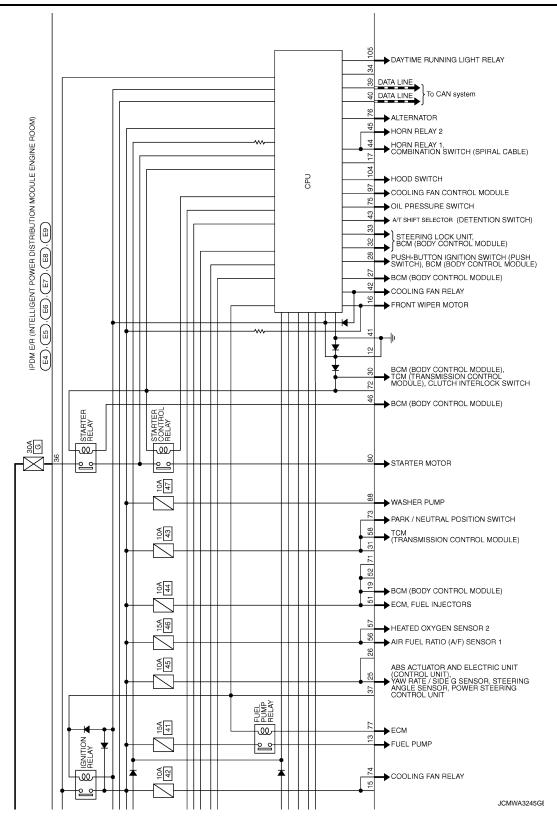
^{*1:} With daytime running light system

^{*2:} Without daytime running light system

^{*3:} A/T models only

^{*4:} M/T models only



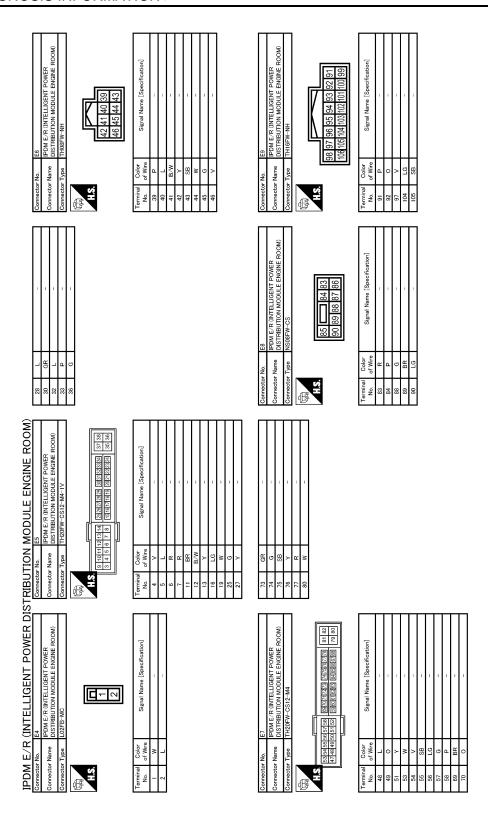


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< ECU DIAGNOSIS INFORMATION >



JCMWA3247GE

Fail-safe

INFOID:0000000004704249

CAN COMMUNICATION CONTROL

When CAN communication with ECM and 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 ECM

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [XENON TYPE]

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe operation
Cooling fan	 Outputs the pulse duty signal (PWM signal) 100% when the ignition switch is turned ON Outputs the pulse duty signal (PWM signal) 0% when the ignition switch is turned OFF
A/C compressor	A/C relay OFF
Alternator	Outputs the power generation command signal (PWM signal) 0%

If No CAN Communication Is Available With BCM

Control part	Fail-safe operation	
Headlamp	 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 	
Parking lampsSide maker lampLicense plate lampsIlluminationsTail lamps	 Turns ON the tail lamp relay and the daytime running light relay* when the ignition switch is turned ON Turns OFF the tail lamp relay and the daytime running light relay* when the ignition switch is turned OFF 	
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the AUTO mode and the front wiper motor is operating. 	
Horn	Horn relay OFF	
Ignition relay	The status just before activation of fail-safe is maintained.	
Starter motor	Starter control relay OFF	
Steering lock unit	Steering lock relay OFF	

^{*:} With daytime running light system

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay inside it.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and the daytime running light relay* for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Voltage judgment			
Ignition relay contact side	Ignition relay excitation coil side	IPDM E/R judgment	Operation
ON	ON	Ignition relay ON normal	_
OFF	OFF	Ignition relay OFF normal	_
ON	OFF	Ignition relay ON stuck	 Detects DTC "B2098: IGN RELAY ON" Turns ON the tail lamp relay and the daytime running light relay* for 10 minutes
OFF	ON	Ignition relay OFF stuck	Detects DTC "B2099: IGN RELAY OFF"

^{*:} With daytime running light system

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper stop position signal.

When a front wiper stop position signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 seconds activation and 20 seconds stop five times.

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [XENON TYPE]

< ECU DIAGNOSIS INFORMATION >

Ignition switch	Front wiper switch	Front wiper stop position signal
ON	OFF	The front wiper stop position signal (stop position) cannot be input for 10 seconds.
ON	ON	The front wiper stop position signal does not change for 10 seconds.

NOTE:

This operation status can be confirmed on the IPDM E/R "Data Monitor" that displays "BLOCK" for the item "WIP PROT" while the wiper is stopped.

STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

DTC Index INFOID:0000000004704250

NOTE:

- The details of time display are as follows.
- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.
- IGN counter is displayed on FFD (Freeze Frame data).
- The number is 0 when is detected now.
- The number increases like 1 ightarrow 2 \cdots 38 ightarrow 39 after returning to the normal condition whenever IGN OFF ightarrow
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

×: Applicable

CONSULT display	Fail-safe	Refer to
No DTC is detected. further testing may be required.	_	_
U1000: CAN COMM CIRCUIT	×	PCS-15
B2098: IGN RELAY ON	×	PCS-16
B2099: IGN RELAY OFF	_	PCS-17
B2108: STRG LCK RELAY ON	_	SEC-100
B2109: STRG LCK RELAY OFF	_	SEC-102
B210A: STRG LCK STATE SW	_	SEC-103
B210B: START CONT RLY ON	-	SEC-107
B210C: START CONT RLY OFF	_	SEC-108
B210D: STARTER RELAY ON	_	SEC-109
B210E: STARTER RELAY OFF	_	SEC-110
B210F: INTRLCK/PNP SW ON	_	SEC-112
B2110: INTRLCK/PNP SW OFF	_	SEC-114

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS WITHOUT DAYTIME RUNNING LIGHT SYSTEM

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Symptom Table

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CAUTION:

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

Sym	otom	Possible cause	Inspection item
Headlamp does not switch to the high beam.	One side	Fuse Harness between IPDM E/R and the front combination lamp Front combination lamp (High beam solenoid) IPDM E/R	Headlamp (HI) circuit Refer to <u>EXL-39</u> .
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM" Refer to EXL-152.	
High beam indicator lamp (Headlamp switches to the		Combination meter	Combination meter Data monitor "HI-BEAM IND" BCM (HEAD LAMP) Active test "HEADLAMP"
	One side	Front combination lamp (High beam solenoid)	_
Headlamp does not switch to the low beam.	Both sides	Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-82.
		High beam request signal BCM IPDM E/R	IPDM E/R Data monitor "HL HI REQ"
		IPDM E/R	_
Headlamp is not turned ON.	One side	Fuse Xenon bulb Harness between IPDM E/R and the front combination lamp Front combination lamp (xenon headlamp) IPDM E/R	Headlamp (LO) circuit Refer to EXL-41.
	Both sides	Symptom diagnosis	
	When the ignition switch is turned ON	"BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-153.	
Headlamp is not turned OFF.	The ignition switch is turned OFF (After activating the battery saver).	IPDM E/R	_
Headlamp is not turned ON/OFF with the lighting switch AUTO.		Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-82.
		Optical sensor Harness between the optical sensor and BCM BCM	Optical sensor Refer to <u>EXL-55</u> .

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Symp	otom	Possible cause	Inspection item
Parking lamp is not turned ON.		Fuse Parking lamp bulb Harness between IPDM E/R and the front combination lamp Front combination lamp IPDM E/R	Parking lamp circuit Refer to EXL-48.
Tail lamp is not turned ON.		Harness between IPDM E/R and the rear combination lamp Rear combination lamp	Tail lamp circuit Refer to EXL-60.
License plate lamp is not to	urned ON.	Harness between IPDM E/R and the license plate lamp License plate lamp	License plate lamp circuit Refer to EXL-63.
Tail lamp and license plate	lamp are not turned ON.	Fuse Harness between IPDM E/R and the rear combination lamp IPDM E/R	Tail lamp circuit Refer to EXL-60.
 Parking lamp, tail lamp a not turned ON. Parking lamp, tail lamp a not turned OFF. (Each illumination is turned) 	nd license plate lamp are	Symptom diagnosis "PARKING, LICENSE PLATE AND ON" Refer to EXL-154.	TAIL LAMPS ARE NOT TURNED
Turn signal lamp does not	Indicator lamp is normal. (The applicable side performs the high flasher activation.)	Harness between BCM and each turn signal lamp Turn signal lamp bulb	Turn signal lamp circuit Refer to EXL-51.
blink.	Indicator lamp is included	Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-82.
	One side	Combination meter	_
Turn signal indicator lamp does not blink. (The turn signal indicator	Both sides (Always)	Turn signal indicator lamp signal Combination meter BCM Combination meter	Combination meter Data monitor "TURN IND" BCM (FLASHER) Active test "FLASHER"
lamp is normal.)	Both sides (Only when activating the hazard warning lamp with the ignition switch OFF)	Combination meter power supply and the ground circuit Combination meter	Combination meter Power supply and the ground circuit Refer to MWI-44.
 Hazard warning lamp does not activate. Hazard warning lamp continues activating. (Turn signal is normal.) 		Hazard switch Harness between the hazard switch and BCM BCM	Hazard switch Refer to <u>EXL-58</u> .
Rear fog lamp is not	Rear fog lamp indicator lamp is normal.	Harness between BCM and rear fog lamp Rear fog lamp bulb BCM	Rear fog lamp circuit Refer to <u>EXL-66</u> .
turned ON.	Rear fog lamp indicator lamp is included.	 Rear fog lamp indicator lamp is included. Harness between combination switch and BCM BCM 	Combination switch Refer to <u>BCS-82</u> .

WITH DAYTIME RUNNING LIGHT SYSTEM

WITH DAYTIME RUNNING LIGHT SYSTEM: Symptom Table

INFOID:0000000004459631

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

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

Sym	ptom	Possible cause	Inspection item
Headlamp does not switch to the high beam.	One side	Fuse Harness between IPDM E/R and the front combination lamp Front combination lamp (High beam solenoid) IPDM E/R	Headlamp (HI) circuit Refer to EXL-39.
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM" Refer to EXL-152.	
High beam indicator lamp (The headlamp switches t		Combination meter	Combination meter Data monitor "HI-BEAM IND" BCM (HEAD LAMP) Active test "HEADLAMP"
	One side	Front combination lamp (High beam solenoid)	_
Headlamp does not switch to the low beam.	Poth aidea	Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-82.
	Both sides	High beam request signalBCMIPDM E/R	IPDM E/R Data monitor "HL HI REQ"
		IPDM E/R	_
Headlamp is not turned ON.	One side	Fuse Xenon bulb Harness between IPDM E/R and the front combination lamp Front combination lamp (xenon headlamp) IPDM E/R	Headlamp (LO) circuit Refer to EXL-41.
	Both sides	Symptom diagnosis	
Headlamp is not turned	When ignition switch is turned ON	"BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-153.	
OFF.	Ignition switch is turned OFF.	IPDM E/R	_
Headlamp is not turned ON/OFF with the lighting switch AUTO.		Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-82.
		Optical sensor Harness between the optical sensor and BCM BCM	Optical sensor Refer to <u>EXL-55</u> .
Parking lamp is not turned ON.		Parking lamp bulb Harness between daytime running light relay and the front combination lamp Front combination lamp	Parking lamp circuit Refer to EXL-49.
Tail lamp is not turned ON.		Harness between daytime running light relay and the rear combination lamp Rear combination lamp	Tail lamp circuit Refer to EXL-61.

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Symp	otom	Possible cause	Inspection item
License plate lamp is not turned ON.		Harness between daytime run- ning light relay and the license plate lamp License plate lamp	License plate lamp circuit Refer to EXL-64.
Tail lamp and license plate lamp are not turned ON.		Fuse Harness between daytime running light relay and the rear combination lamp	Tail lamp circuit Refer to EXL-61.
 Parking lamp, tail lamp a not turned ON. Parking lamp, tail lamp a not turned OFF. (Each illumination is turned 	nd license plate lamp are	Symptom diagnosis "PARKING, LICENSE PLATE AND ON" Refer to EXL-154.	TAIL LAMPS ARE NOT TURNED
Tail lamp indicator lamp is (Parking and tail lamps are		Combination meter	Combination meter Data monitor "LIGHT IND" BCM (HEAD LAMP) Active test "TAIL LAMP"
Turn signal lamp does not blink.	Indicator lamp is normal. (The applicable side performs the high flasher activation.)	Harness between BCM and each turn signal lamp Turn signal lamp bulb	Turn signal lamp circuit Refer to EXL-51.
	Indicator lamp is included	Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-82.
	One side	Combination meter	_
Turn signal indicator lamp does not blink. (The turn signal indicator	Both sides (Always)	 Turn signal indicator lamp signal combination meter BCM Combination meter 	Combination meter Data monitor "TURN IND" BCM (FLASHER) Active test "FLASHER"
lamp is normal.)	Both sides (Only when activating the hazard warning lamp with the ignition switch OFF.)	Combination meter power supply and the ground circuit Combination meter	Combination meter Power supply and the ground circuit Refer to MWI-44.
 Hazard warning lamp do Hazard warning lamp co (Turn signal is normal.) 		Hazard switchHarness between the hazard switch and BCMBCM	Hazard switch Refer to <u>EXL-58</u> .
Rear fog lamp is not	Rear fog lamp indicator lamp is normal.	Harness between BCM and rear fog lamp Rear fog lamp bulb BCM	Rear fog lamp circuit Refer to <u>EXL-66</u> .
turned ON.	Rear fog lamp indicator lamp is included.	Combination switch Harness between combination switch and BCM BCM	Combination switch Refer to BCS-82.
Rear fog lamp indicator lar (Rear fog lamp is turned O		Rear fog lamp status signalCombination meter.BCMCombination meter	Combination meter Data monitor "RR FOG IND" BCM (HEAD LAMP) Active test "RR FOG LAMP"

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS > [XENON TYPE]

NORMAL OPERATING CONDITION

Description A

XENON HEADLAMP

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

AUTO LIGHT SYSTEM

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

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BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description INFOID:000000004404227

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

Diagnosis Procedure

INFOID:0000000004404228

1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-82, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

(E)CONSULT-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	C	Monitor status	
HL HI REQ	Lighting switch	HI or PASS	On
TILTITILG	(2ND)	Except for HI or PASS	Off

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM.

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-39, "Description".

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON [XENON TYPE] < SYMPTOM DIAGNOSIS > BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON Α Description INFOID:0000000004404229 The headlamps (both sides) are not turned ON in any condition. В Diagnosis Procedure INFOID:0000000004404230 CHECK COMBINATION SWITCH Check the combination switch. Refer to BCS-82, "Symptom Table". Is the combination switch normal? D YES >> GO TO 2. NO >> Repair or replace the malfunctioning part. 2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT Е **©CONSULT-III DATA MONITOR** Select "HL LO REQ" of IPDM E/R data monitor item. With operating the lighting switch, check the monitor status. F Monitor item Condition Monitor status 2ND On **HL LO REQ** Lighting switch OFF Off Is the item status normal? Н YES >> GO TO 3.

NO >> Replace BCM.

3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to EXL-41, "Description".

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

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

WITHOUT DAYTIME RUNNING LIGHT SYSTEM

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Description

INFOID:0000000004404231

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

WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure

INFOID:00000000044042

1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-82, "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 & CLD DEO	AIL & CLR REQ Lighting switch	1ST	On
TAIL & OLK KLQ		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 <u>EXL-60</u>, "WITHOUT DAYTIME RUNNING LIGHT SYSTEM : Component <u>Function Check"</u>.

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

WITH DAYTIME RUNNING LIGHT SYSTEM

WITH DAYTIME RUNNING LIGHT SYSTEM: Description

INFOID:0000000004459632

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

WITH DAYTIME RUNNING LIGHT SYSTEM: Diagnosis Procedure

INFOID:0000000004459633

1.SYMPTOM CONFIRMATION

Turn the lighting switch 1ST.

Are each illumination turned ON?

YES >> GO TO 4.

NO >> GO TO 2.

2. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-82, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning part.

3.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

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

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

(P)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
	Lighting Switch	OFF	Off

Is the item status normal?

YES >> Replace IPDM E/R.

NO >> Replace BCM.

4. DAYTIME RUNNING LIGHT RELAY CIRCUIT INSPECTION

Check the daytime running light relay circuit. Refer to <u>EXL-45</u>, "Component Function Check".

Is the daytime running light relay circuit normal?

YES >> Check the parking lamp circuit. Refer to <u>EXL-50</u>, "<u>WITH DAYTIME RUNNING LIGHT SYSTEM</u>: <u>Diagnosis Procedure"</u>.

NO >> Repair or replace the malfunctioning part.

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< PRECAUTION > [XENON TYPE]

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. 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.

Precautions For Xenon Headlamp Service

INFOID:0000000004703698

WARNING:

Comply with the following warnings to prevent any serious accident.

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

CAUTION:

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

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

Precaution for Battery Service

INFOID:0000000004704255

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

PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Description BINFOID.000000004404238

PREPARATION BEFORE ADJUSTING

NOTE

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

Before performing aiming adjustment, check the following.

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

NOTE:

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

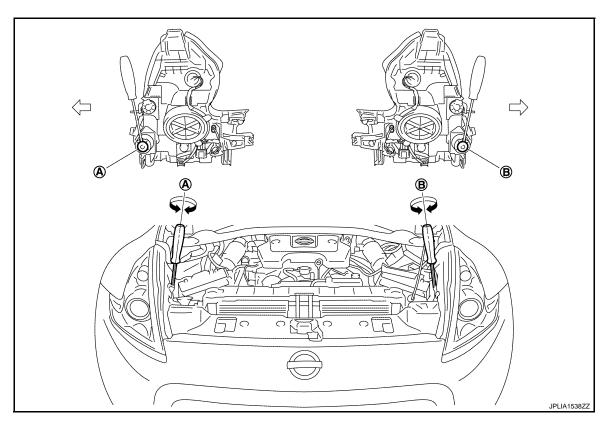
Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

· Ride alone on the driver seat.

AIMING ADJUSTMENT SCREW



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

: Vehicle center

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

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HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

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

Aiming Adjustment Procedure

INFOID:0000000004404239

Place the screen.

NOTE:

- Stop the vehicle facing the wall.
- Place the board on a plain road vertically.
- 2. Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the headlamp center and the screen.
- 3. Start the engine. Turn the headlamp (LO) ON.

NOTE:

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

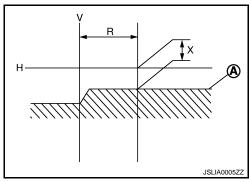
Never cover the lens surface with a tape etc. The lens is made of resin.

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

Light axis measurement range (R)

: 350 \pm 175 mm (13.78 \pm 6.89 in)

Low beam distribution on the screen

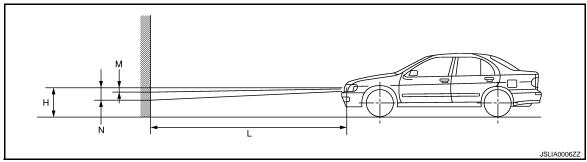


 Adjust the cutoff line height with the aiming adjustment screw so as to enter in the adjustment range (M– N) according to the horizontal center line of headlamp (H).

unit: mm (in)

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

Side view



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

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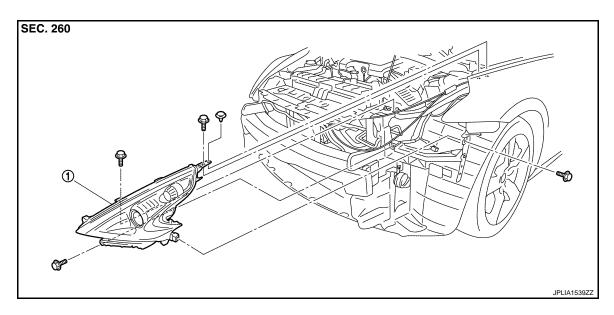
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REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

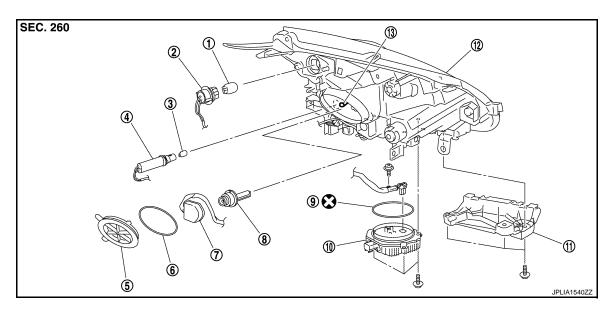
Exploded View INFOID:0000000004527534

REMOVAL



Front combination lamp

DISASSEMBLY



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

2. Front turn signal lamp bulb socket

EXL-159

- Resin cap 5.
- Xenon bulb
- 11. Bumper bracket

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

9. Seal packing

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Refer to GI-4, "Components" for symbols in the figure.

< REMOVAL AND INSTALLATION >

Removal and Installation

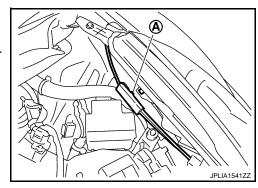
INFOID:0000000004527535

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- 1. Remove the front bumper fascia. Refer to <a>EXT-12, "Exploded View".
- 2. Remove the headlamp mounting bolts and clip.
- 3. Remove the holding clip (A)* and harness clip.
 *: Left side only
- 4. Pull out the headlamp assembly forward the vehicle.
- 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-157, "Description".
- After installation, check that headlamp lighting. Refer to <u>EXL-161</u>, "Inspection After Installation (HID Control Unit)".

Replacement INFOID:000000004527536

CAUTION:

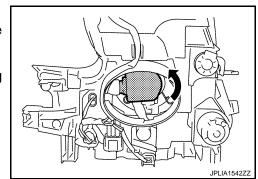
- Disconnect the battery negative terminal or remove the fuse.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is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

- Remove the fender protector. Keep a service area. Refer to <u>EXT-24</u>, "<u>FENDER PROTECTOR</u>: <u>Exploded</u> 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

- Remove the fender protector. Keep a service area. Refer to <u>EXT-24, "FENDER PROTECTOR: Exploded View"</u>.
- 2. Rotate the bulb socket counterclockwise and unlock it.
- 3. Remove the bulb from the bulb socket.

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

FRONT TURN SIGNAL LAMP BULB

- 1. Remove the fender protector. Keep a service area. Refer to EXT-24, "FENDER PROTECTOR: Exploded View".
- Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb from the bulb socket.

SIDE MARKER LAMP

Replacement integral with front combination lamp. Refer to <u>EXL-159</u>, "Exploded View".

Disassembly and Assembly

INFOID:0000000004527537

DISASSEMBLY

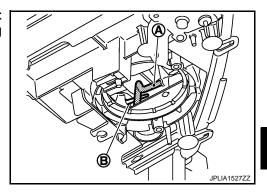
- 1. Rotate the resin cap counterclockwise and unlock it.
- 2. Rotate the xenon bulb socket counterclockwise and unlock it.
- 3. Remove the retaining spring lock. Remove the xenon bulb.
- 4. Remove the bumper bracket.
- Remove the HID control unit installation screw.
- Remove the screw. Disconnect the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

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

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



• Install HID control unit securely.

- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.
- Seal packing cannot be reused.
- After installation, check that headlamp lighting. Refer to <u>EXL-161</u>, "Inspection After Installation (<u>HID Control Unit</u>)".

Inspection After Installation (HID Control Unit)

INFOID:0000000004527538

CAUTION:

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

XENON HEADLAMP LIGHTING CHECK

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

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

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FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

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

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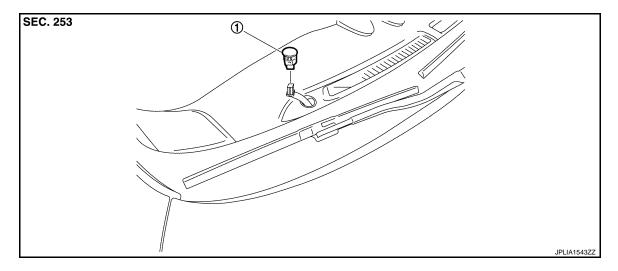
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OPTICAL SENSOR

Exploded View



1. Optical sensor

Removal and Installation

REMOVAL

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

The lighting & turn switch is integrated in the combination switch. Refer to BCS-85, "Exploded View".

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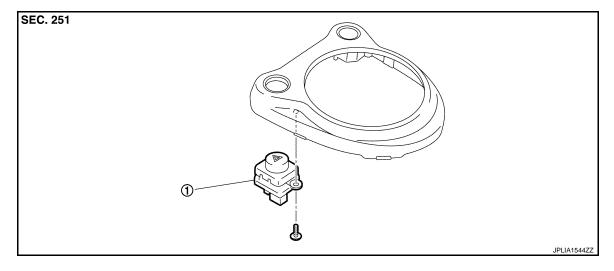
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HAZARD SWITCH

Exploded View



1. Hazard switch

Removal and Installation

REMOVAL

- 1. Remove the console finisher. Refer to IP-23, "Exploded View".
- 2. Remove the hazard switch from the console finisher.

INSTALLATION

Install in the reverse order of removal.

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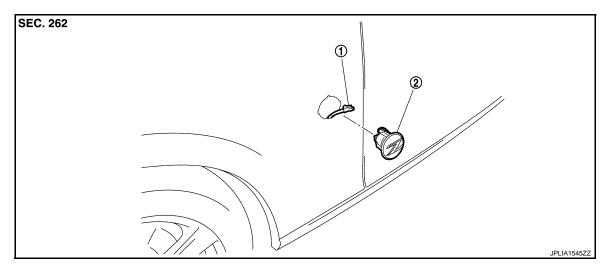
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SIDE TURN SIGNAL LAMP

Exploded View



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

Removal and Installation

INFOID:0000000004522734

CAUTION:

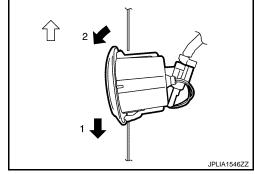
Disconnect battery negative terminal or remove the fuse.

REMOVAL

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

NOTE:

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



INSTALLATION

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

Replacement INFOID:000000004522735

SIDE TURN SIGNAL LAMP BULB

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

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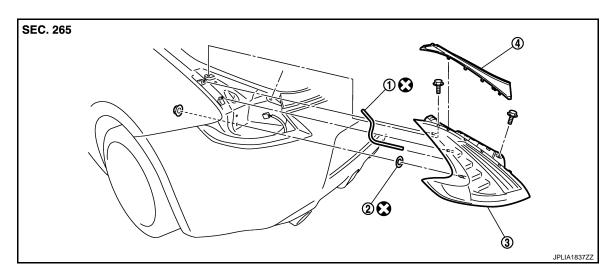
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REAR COMBINATION LAMP

Exploded View INFOID:0000000004404258

REMOVAL



EPT sealer

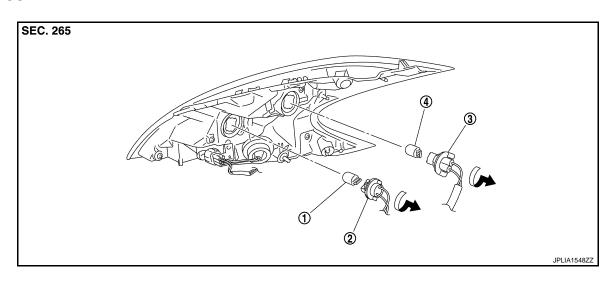
Seal packing

Rear combination lamp assembly

Rear combination lamp finisher

Refer to GI-4, "Components" for symbols in the figure.

DISASSEMBLY



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

Back-up lamp

Removal and Installation

INFOID:0000000004404259

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- 1. Remove the rear combination lamp finisher.
- Remove the luggage side finisher upper. Refer to INT-26, "Exploded View".
- Remove the rear combination lamp mounting nut and bolts. 3.
- Pull the rear combination lamp toward rear of the vehicle.

EXL-167 Revision: 2009 December 2009 370Z

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Disconnect the rear combination lamp connector.

INSTALLATION

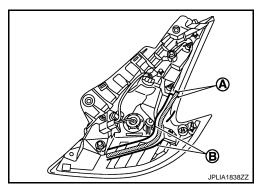
Install in the reverse order of removal.

CAUTION:

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

Installation EPT sealer

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



Replacement INFOID:000000004404260

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CAUTION:

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

REAR TURN SIGNAL LAMP BULB

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

BACK-UP LAMP BULB

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

STOP/TAIL LAMP

Replacement integral with rear combination lamp. Refer to <a>EXL-167, <a>"Exploded View".

REAR SIDE MARKER LAMP

Replacement integral with rear combination lamp. Refer to <a>EXL-167, "Exploded View".

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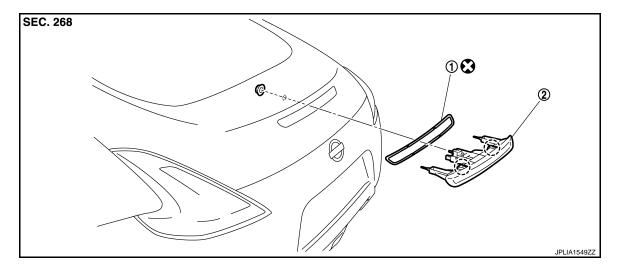
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INFOID:0000000004404262

HIGH-MOUNTED STOP LAMP

Exploded View



Seal packing

2. High-mounted stop lamp

(): Metal clip

Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

CAUTION:

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

REMOVAL

- 1. Remove the back door trim. Refer to INT-28, "Exploded View".
- 2. Remove the high-mounted stop lamp mounting nut.
- 3. Disconnect the high-mounted stop lamp connector.
- 4. Insert any appropriate tool in high-mounted stop lamp and a gap of the back door. Remove the metal clip.
- 5. Remove the high-mounted stop lamp from the back door.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Seal packing cannot be reused.

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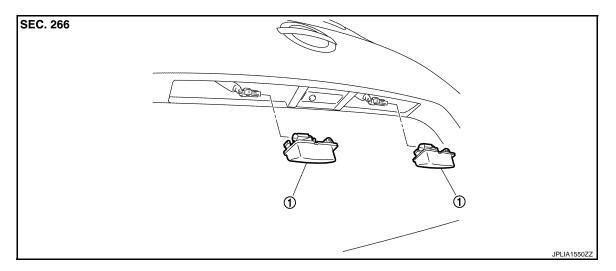
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LICENSE PLATE LAMP

Exploded View



License plate lamp

Removal and Installation

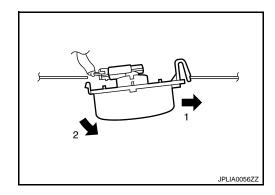
INFOID:0000000004404266

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

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



INSTALLATION

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

Replacement

CAUTION:

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

LICENSE PLATE LAMP BULB

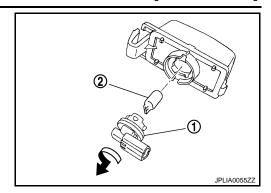
Remove the license plate lamp.

LICENSE PLATE LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

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



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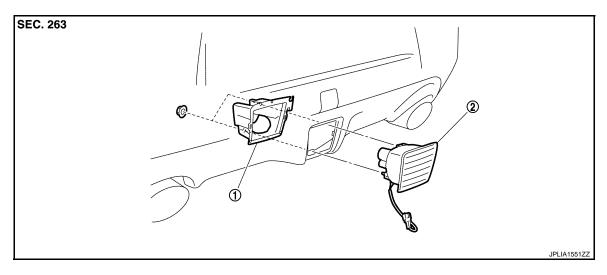
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REAR FOG LAMP

Exploded View



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

Removal and Installation

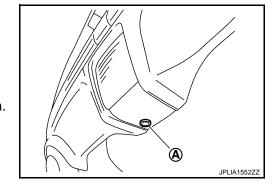
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CAUTION:

Disconnect battery negative terminal or remove the fuse.

REMOVAL

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



INSTALLATION

Installation is the reverse order of removal.

Replacement INFOID:000000004459636

CAUTION:

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

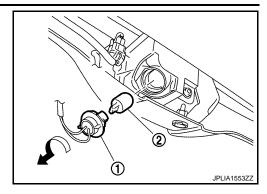
REAR FOG LAMP BULB

REAR FOG LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

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



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SERVICE DATA AND SPECIFICATIONS (SDS)

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[XENON TYPE]

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000004404268

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