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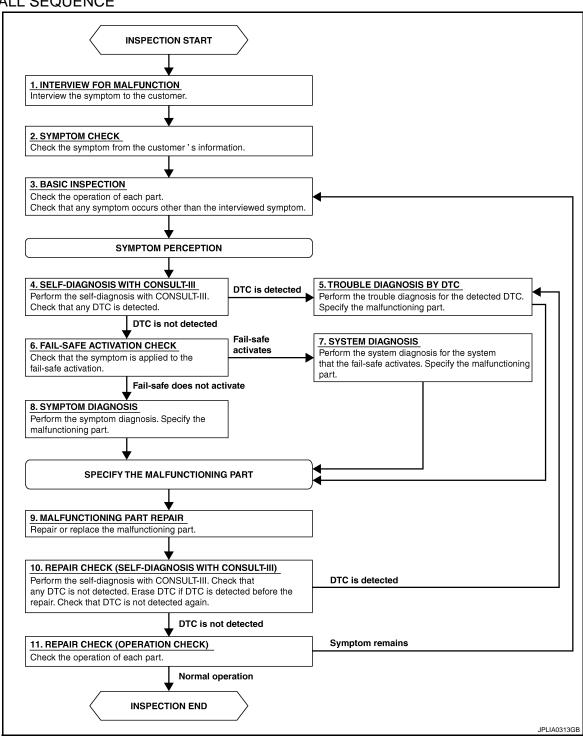
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

DIAGNOSIS AND REPAIR WORKFLOW
< BASIC INSPECTION > [XENON TYPE]
>> GO TO 2.
2.symptom check
Check the symptom from the customer's information.
00.70.0
>> 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.
110 // 00 10 0.

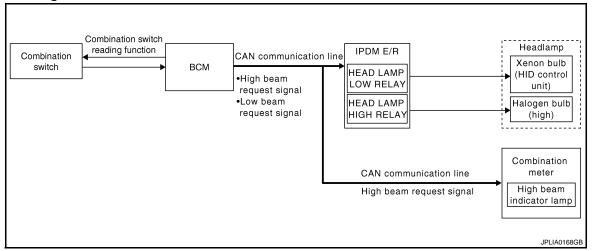
Revision: 2008 January EXL-7 2008 Rogue

FUNCTION DIAGNOSIS

HEADLAMP SYSTEM

System Diagram

INFOID:0000000001720618



System Description

INFOID:0000000001720619

OUTLINE

Headlamp is controlled by combination switch reading function and headlamp control function of BCM, and relay control function of IPDM E/R.

HEADLAMP (LO) 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 (LO) ON condition.

Headlamp (LO) ON condition

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

HEADLAMP (HI) OPERATION

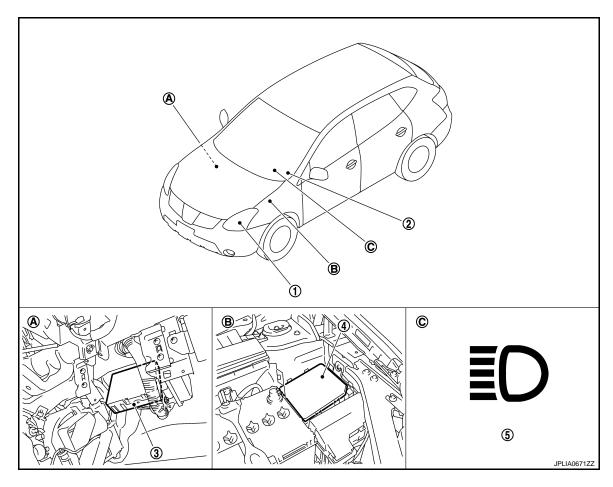
• BCM transmits the high beam request signal to IPDM E/R and the combination meter with CAN communication according to the headlamp (HI) ON condition.

Headlamp (HI) ON condition

- Lighting switch HI with the lighting switch 2ND
- 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.

Component Parts Location

INFOID:0000000001720620



- 1. Headlamp
- 4. IPDM E/R
- A. Over the glove box
- 2. Combination switch
- 5. High beam indicator lamp
- B. Engine room (LH)
- 3. BCM
- C. On the combination meter

Component Description

INFOID:0000000001720621

	Part	Description
всм		 Detects each switch condition by the combination switch reading function. Judges that the headlamp is turned ON according to the vehicle condition. Requests the headlamp relay (HI/LO) ON to IPDM E/R (with CAN communication). Requests the high beam indicator lamp ON to the combination meter (with CAN communication).
IPDM E/R		Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication).
Combination switch (Lighting & turn sign		Refer to BCS-9, "System Diagram".
Combination meter (High beam indicate	or lamp)	Turns the high beam indicator lamp ON according to the request from BCM (with CAN communication).
Front combination lamp assembly	HID control unitXenon bulb	Refer to EXL-34, "Description".

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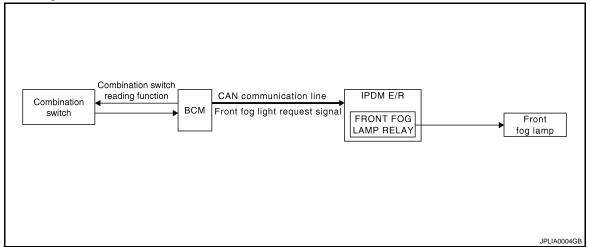
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FRONT FOG LAMP SYSTEM

System Diagram

INFOID:0000000001716335



System Description

INFOID:0000000001716336

OUTLINE

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

FRONT FOG LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front fog light request signal to IPDM E/R with CAN communication according to the front fog lamp ON condition.

Front fog lamp ON condition

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

Component Parts Location

INFOID:0000000001716337

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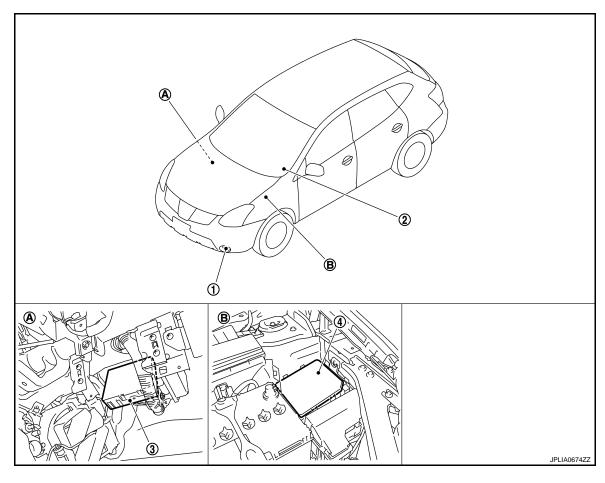
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- 1. Front fog lamp
- 4. IPDM E/R
- A. Over the glove box
- 2. Combination switch
- 3. BCM
- B. Engine room (LH)

Component Description

INFOID:0000000001716338

Part	Description
ВСМ	 Detects each switch condition by the combination switch reading function. Judges the front fog lamp ON/OFF status according to the vehicle condition. Requests the front fog lamp relay ON to IPDM E/R (with CAN communication).
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".

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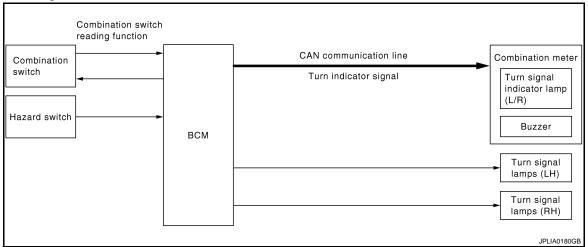
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

System Diagram

INFOID:0000000001716339



System Description

INFOID:0000000001716340

OUTLINE

Turn signal lamp 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 are 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)

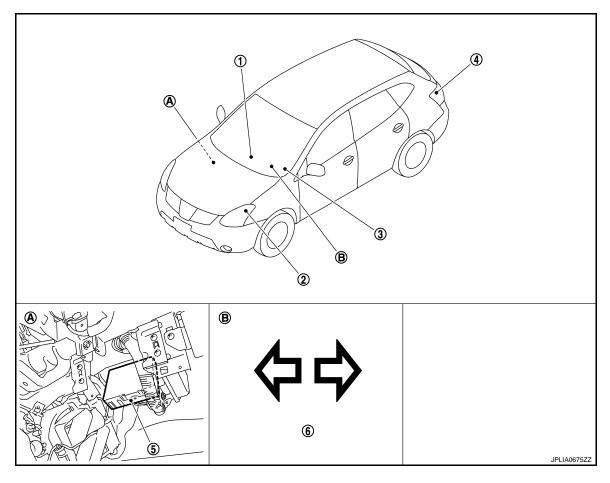
- BCM detects the turn signal lamp circuit status by the terminal current value.
- BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

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

Component Parts Location

INFOID:0000000001716341



- 1. Hazard switch
- 4. Rear turn signal lamp
- A. Over the glove box
- 2. Front turn signal lamp
- 5. BCM
- B. On the combination meter
- 3. Combination switch
- 6. Turn signal indicator lamp

Component Description

INFOID:0000000001716342

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).

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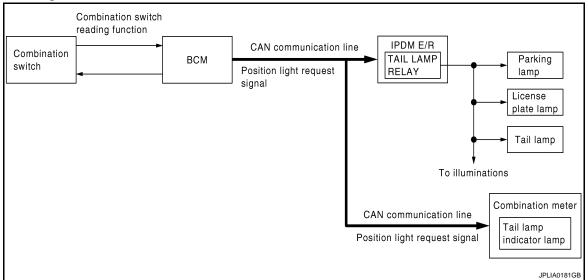
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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

System Diagram

INFOID:0000000001722045



System Description

INFOID:0000000001722046

OUTLINE

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

*: Illuminated as side maker lamps too.

PARKING. LICENSE PLATE AND TAIL LAMPS OPERATION

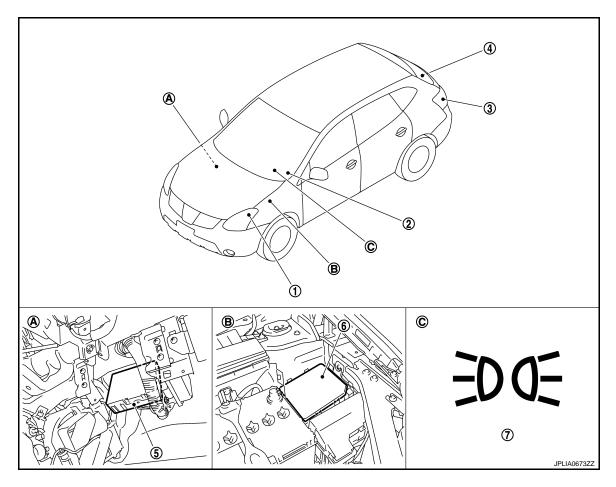
- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the position light request signal to IPDM E/R and the combination meter with CAN communication according to the ON/OFF condition of the parking, license plate and tail lamps.

Parking, license plate and tail lamps ON condition

- Lighting switch 1ST
- Lighting switch 2ND
- IPDM E/R turns the integrated tail lamp relay ON and turns the parking lamp, the license plate and tail 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.

Component Parts Location

INFOID:0000000001722047



- 1. Parking lamp (Side marker lamp)
- 4. License plate lamp
- 7. Tail lamp indicator lamp
- A. Over the glove box
- 2. Combination switch
- 5. BCM
- B. Engine room (LH)

- 3. Tail lamp (Side marker lamp)
- 6. IPDM E/R
- C. On the combination meter

Component Description

INFOID:0000000001722048

Part	Description
ВСМ	 Detects each switch condition by the combination switch reading function. Judges the ON/OFF status of the parking, license plate and tail 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).

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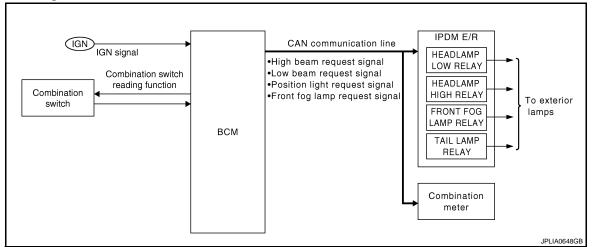
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EXTERIOR LAMP BATTERY SAVER SYSTEM

System Diagram

INFOID:0000000001722568



System Description

INFOID:0000000001722577

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 and front fog lamp

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.

Component Parts Location

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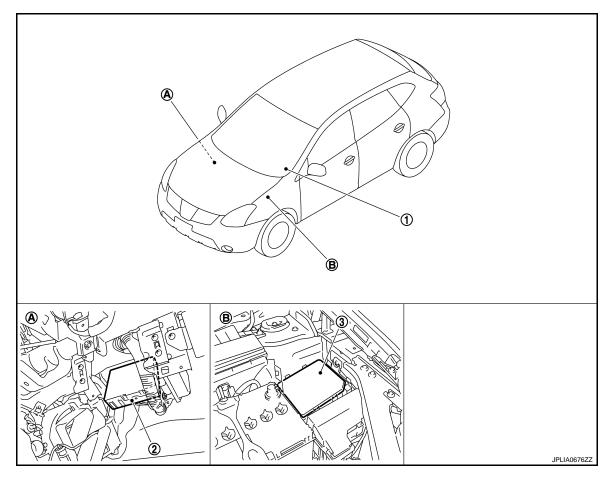
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- 1. Combination switch
- A. Over the glove box
- 2. BCM
- B. Engine room (LH)

3. IPDM E/R

Component Description

INFOID:0000000001722571

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

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000003049960

APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description	
ECU Identification	BCM part number is displayed.	
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to EXL-93, "DTC Index".	
Data Monitor	BCM input/output signals are displayed.	
Active Test	The signals used to activate each device are forcibly supplied from BCM.	
Work Support	Changes the setting for each system function.	
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 	
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.	

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	CONSULT-III	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 control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
_	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	FUEL LID*			
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×
Panic alarm system	PANIC ALARM			×

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

HEADLAMP

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[XENON TYPE]

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

INFOID:0000000001716356

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WORK SUPPORT

Service item	Setting item	Setting	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
DATTERT SAVER SET	Off	Without the exterior lamp battery saver function	
	MODE 1		
	MODE 2		
	MODE 3		
ILL DELAY SET	MODE 4 MODE 5	NOTE:	
ILL DELAT SET		The item is indicated, but not operate	
	MODE 6		
	MODE 7		
	MODE 8		

^{*:} Initial setting

DATA MONITOR

Monitor item [Unit]	Description			
IGN ON SW [On/Off]	Ignition switch (ON) status judged from IGN signal (ignition power supply)			
ACC SW [On/Off]	Ignition switch (ACC) status judged from ACC signal (ACC power supply)			
HI BEAM SW [On/Off]				
HEAD LAMP SW1 [On/Off]				
HEAD LAMP SW2 [On/Off]	Face quite details that POM indeed from the combination quite year disc fire stick			
LIGHT SW 1ST [On/Off]	Each switch status that BCM judges from the combination switch reading function			
PASSING SW [On/Off]				
FR FOG SW [On/Off]				
AUTO LIGHT SW [On/Off]	NOTE:			
RR FOG SW [On/Off]	The item is indicated, but not monitored			
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)			
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)			
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH			
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH			
BACK DOOR SW [On/Off]	The switch status input from back door switch			

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Monitor item [Unit]	Description			
TURN SIGNAL R [On/Off]	Fools quitable status that DOM inclose from the combination quitable reading function			
TURN SIGNAL L [On/Off]	Each switch status that BCM judges from the combination switch reading function			
ENGINE RUNNING [On/Off]	The engine status received from ECM with CAN communication			
PKB SW [On/Off]	The parking brake switch status received from combination meter with CAN communication			
CARGO LAMP SW [On/Off]	NOTE:			
OPTICAL SENSOR [V]	The item is indicated, but not monitored			

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 tail lamp request signal transmission.
	Hi	Transmits the high beam request signal with CAN communication to turn the headlamp (HI).
HEAD LAMP	Lo	Transmits the low beam request signal with CAN communication to turn the headlamp (LO).
	Off	Stops the high & low beam request signal transmission.
FR FOG LAMP	On	Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON.
	Off	Stops the front fog lights request signal transmission.
DAYTIME RUNNING LIGHT	On	NOTE:
DAT TIME NOTWING LIGHT	Off	The item indicated, but not operate

FLASHER

FLASHER: CONSULT-III Function (BCM - FLASHER)

INFOID:0000000001716357

DATA MONITOR

Monitor item [Unit]	Description	
IGN ON SW [On/Off]	Ignition switch (ON) status judged from IGN signal (ignition power supply)	
HAZARD SW [On/Off]	The switch status input from the hazard switch	
TURN SIGNAL R [On/Off]	Each quitab condition that PCM judges from the combination quitab reading fun	
TURN SIGNAL L [On/Off]	Each switch condition that BCM judges from the combination switch reading function	
BRAKE SW [On/Off]	The switch status input from the stop lamp switch	

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[XENON TYPE]

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

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DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000003049963

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
- Rear window defogger
- Front wiper (LO, HI)
- Parking lamps
- License plate lamps
- Tail lamps
- Front fog lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan (LO, MID, HI)

Operation procedure

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

NOTE:

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

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

CAUTION:

Close passenger door.

Turn the ignition switch ON within 10 seconds. Then the horn sounds once and the auto active test starts.
 NOTE:

Only a vehicle with the vehicle security system, the horn sounds.

- 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.

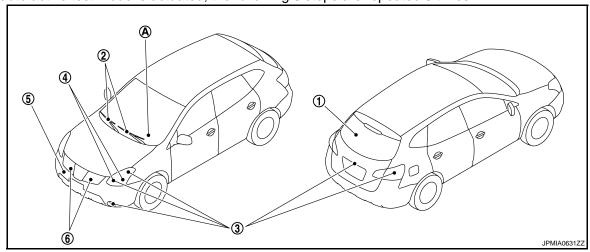
NOTE:

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

- If auto active test mode cannot be actuated, check door switch system.
- Never start the engine.

Inspection in auto active test mode

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



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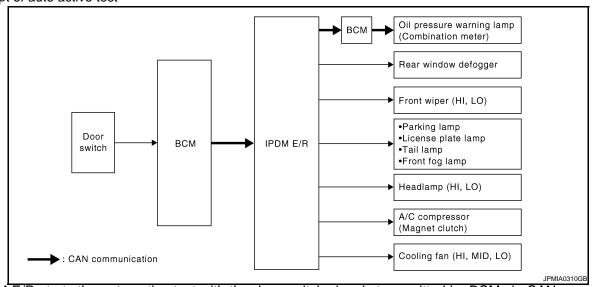
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Operation sequence	Inspection location	Operation
А	Oil pressure warning lamp	Blinks continuously during operation of auto active test.
1	Rear window defogger	10 seconds
2	Front wiper	LO for 5 seconds → HI for 5 seconds
3	 Parking lamps License plate lamps Tail lamps Front fog lamps Headlamps HI (daytime running light operation)* 	10 seconds
4	Headlamps	LO ⇔ HI 5 times
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times
6	Cooling fan	LO for 5 seconds → MID for 3 seconds → HI for 2 seconds

NOTE:

*: With daytime running light system

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	ľ
Rear window defogger does not operate	Perform auto active test. Does the rear window defogger operate?	NO	Rear window defogger Rear window defogger ground circuit Harness or connector between IPDM E/R and rear window defogger IPDM E/R	(
Any of the following components do not operate		YES	BCM signal input circuit	
 Parking lamps License plate lamps Tail lamps Front fog lamps Headlamps (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	_

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DIAGNOSIS SYSTEM (IPDM E/R)

< FUNCTION DIAGNOSIS >

[XENON TYPE]

Symptom	Inspection contents		Possible cause
Headlamps HI (daytime running light operation) do	Perform auto active test. Do headlamps HI (daytime	YES	CAN communication signal between ECM and BCM CAN communication signal between combination meter and BCM BCM signal input circuit
not operate	running light operation) operate?	NO	Daytime running light relay power supply circuit Harness or connector between IPDM E/R and daytime running light relay Daytime running light relay
A/C compressor does not operate	Perform auto active test. Does the magnet clutch oper-	YES	BCM signal input circuit CAN communication signal between BCM and ECM CAN communication signal between ECM and IPDM E/R
	ate?	NO	Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R
	Perform auto active test. Does the oil pressure warning lamp blink?	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		NO	 CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and combination meter Combination meter
		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 motor-2 power supply circuit Cooling fan motor-1 ground circuit Cooling fan relay-4 or cooling fan relay-5 power supply circuit Cooling fan relay-5 ground circuit Harness or connector between IPDM E/R and cooling fan motor Harness or connector between IPDM E/R, and cooling fan relay-4 or cooling fan relay-5 Harness or connector between cooling fan motor-2, and cooling fan relay-4 or cooling fan relay-5 Cooling fan relay-4 or cooling fan relay-5 Cooling fan motor IPDM E/R

CONSULT-III Function (IPDM E/R)

INFOID:0000000003049964

APPLICATION ITEM

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

Diagnosis mode	Description	
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.	

DIAGNOSIS SYSTEM (IPDM E/R)

< FUNCTION DIAGNOSIS >

[XENON TYPE]

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Diagnosis mode Description	
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

Refer to EXL-105, "DTC Index".

DATA MONITOR

Monitor item

Monitor Item [Unit]	MAIN SIGNALS	Description
MOTOR FAN REQ [1 - 4]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.
FR FOG REQ [Off/On]	×	Displays the status of the front fog light request signal received from BCM via CAN communication. NOTE: This item is monitored only the vehicle with front fog lamp system.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper auto stop signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
ST RLY REQ [Off/On]		Displays the status of the starter request signal.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
RR DEF REQ [Off/On]	×	Displays the status of the rear defogger request signal received from BCM via CAN communication.
OIL P SW [Open/Close]		Displays the status of the oil pressure switch 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.
HOOD SW [Off/On]		Displays the status of the hood switch judged by IPDM E/R. NOTE: This item is monitored only the vehicle for Mexico.
THFT HRN REQ [Off/On]		Displays the status of the horn request signal by vehicle security system or panic alarm system received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn request signal by key fob LOCK operation received from BCM via CAN communication.

ACTIVE TEST

Test item

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Test item	Operation	Description
REAR DEFOGGER	Off	OFF
REAR DEFOGGER	On	Operates the rear window defogger relay.
	Off	OFF
FRONT WIPER	Lo	Operates the front wiper relay.
	Hi	Operates the front wiper relay and front wiper high relay.
	1	OFF
MOTOD FAN	2	Operates the cooling fan relay (LO operation).
MOTOR FAN	3	Operates the cooling fan relay (MID operation).
	4	Operates the cooling fan relay (HI operation).
	Off	OFF
	TAIL	Operates the tail lamp relay and the daytime running light relay. NOTE: Daytime running light relay is with daytime running light system only.
EXTERNAL LAMPS	Lo	Operates the headlamp low relay.
EXTERNAL LAWPS	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 4 seconds intervals.
	Fog	Operates the front fog lamp relay. NOTE: This item can test only the vehicle with front fog lamp system.
HORN	On	Operates horn relay for 20 ms.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000003049967

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1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

Signal name	Fuses and fusible link No.
Battery power supply	10
battery power supply	J
ACC power supply	20
Ignition power supply	1

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

Turn ignition switch OFF.

Disconnect BCM connectors.

3. Check voltage between BCM harness connector and ground.

Terminals		laniti	on switch n	neition	
(+)			Ignition switch position		
BCM		(-)	OFF	ACC	ON
Connector	Terminal		Orr	ACC	ON
M67	70	Ground	Battery	Battery	Battery
IVIO7	57		voltage	voltage	voltage
M65	11		Approx. 0 V	Battery voltage	Battery voltage
WOJ	38		Approx. 0 V	Approx. 0 V	Battery 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.

ВСМ			Continuity
Connector Terminal		Ground	Continuity
M67	M67 67		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) : Di-

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

agnosis Procedure

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1. CHECK FUSIBLE LINK

Check that the following IPDM E/R fusible link is not blown.

Signal name	Fusible link No.
	С
Battery power supply	E
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Is the fusible link fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

	Terminals		
(+)	(-)	Voltage
IPDN	IPDM E/R		Voltage (Approx.)
Connector	Terminal		
E9	1	Ground	
L9	2	Glound	Battery voltage
E10	6		

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

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

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E11	11	Glound	Exist
E13	25		LXISI

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

EXTERIOR LAMP FUSE

< COMPONENT DIAGNOSIS >

[XENON TYPE]

EXTERIOR LAMP FUSE

Description INFOID:000000001716387

Fuse list

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	#44	10 A
Headlamp HI (RH)	IPDM E/R	#43	10 A
Headlamp LO (LH)	IPDM E/R	#49	15 A
Headlamp LO (RH)	IPDM E/R	#50	15 A
Front fog lamp	IPDM E/R	#65	15 A
Parking lamp	IPDM E/R	#46	10 A
Tail lampLicense plate lampEach illumination	IPDM E/R	#45	10 A
Stop lamp	FUSE BLOCK (J/B)	#11	10 A
Back-up lamp	IPDM E/R	#60	10 A

Diagnosis Procedure

1.CHECK FUSE

Check that the following fuses are not fusing.

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	#44	10 A
Headlamp HI (RH)	IPDM E/R	#43	10 A
Headlamp LO (LH)	IPDM E/R	#49	15 A
Headlamp LO (RH)	IPDM E/R	#50	15 A
Front fog lamp	IPDM E/R	#65	15 A
Parking lamp	IPDM E/R	#46	10 A
Tail lamp License plate lamp Each illumination	IPDM E/R	#45	10 A
Stop lamp	FUSE BLOCK (J/B)	#11	10 A
Back-up lamp	IPDM E/R	#60	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

Component Function Check

INFOID:0000000001720622

1. CHECK HEADLAMP (HI) OPERATION

RIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- Check that the headlamp switches to the high beam.

(P)CONSULT-III ACTIVE TEST

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

Hi : Headlamp (HI) ON
Off : Headlamp (HI) OFF

NOTE:

ON/OFF is repeated 1 second each.

Is the headlamp (HI) turned ON?

YES >> Headlamp (HI) circuit is normal.

NO >> Refer to EXL-30, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001720623

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- 1. Turn the ignition switch OFF.
- 2. Disconnect the headlamp high connector.
- Turn the ignition switch ON.
- 4. Select "EXTERNAL LAMP" 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			Condition		
(+)		(-)		Voltage	
IPDM E/R			External	(Approx.)	
Cor	nnector	Terminal		lamp	
RH	E12	22	Ground	Hi	Battery voltage
LH		21		Off	0 V

Is the measurement value normal?

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

2.CHECK HEADLAMP (HI) OPEN CIRCUIT

- Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check continuity between the IPDM E/R harness connector and the headlamp high harness connector.

IPDM E/R		Headlamp high		Continuity	
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	F12	22	E75	1	Existed
LH	LIZ	21	E72	1	LXISIEU

Does continuity exist?

YES >> GO TO 5.

HEADLAMP (HI) CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

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NO >> Repair the harnesses or connectors.

3.CHECK HEADLAMP (HI) FUSE

Turn the ignition switch OFF.

Check that the following fuses are not fusing.

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	#44	10 A
Headlamp HI (RH)	IPDM E/R	#43	10 A

Is the fuse fusing?

YES >> GO TO 4.

>> Replace IPDM E/R. NO

4. CHECK HEAD LAMP HIGH SHORT CIRCUIT

Disconnect IPDM E/R connector.

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

IPDM E/R				Continuity
Conr	nector	Terminal	Ground	Continuity
RH	E12	22	Giodila	Not existed
LH	C12	21		NOI EXISIEU

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 HEAD LAMP (HI) GROUND OPEN CIRCUIT

Turn the ignition switch OFF.

2. Disconnect the headlamp high connector.

Check continuity between the headlamp high harness connector and the ground.

Headlamp high				Continuity
Conr	nector	Terminal	Ground	Continuity
RH	E75	2	Ground	Existed
LH	E72	2		LAISIEU

Does continuity exist?

YES >> Replace the headlamp (HI) bulb. (Bulb socket is abnormally.)

NO >> Repair the harnesses or connectors.

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HEADLAMP (LO) CIRCUIT

Description INFOID:000000001720624

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-34, "Description".

Component Function Check

INFOID:0000000001720625

1. CHECK HEADLAMP (LO) OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- 2. Check that the headlamp is turned ON.
- (P)CONSULT-III ACTIVE TEST
- 1. Select "EXTERNAL LAMP" of IPDM E/R active test item.
- 2. With operating the test items, check that the headlamp (LO) is turned ON.

Lo : Headlamp (LO) ON
Off : Headlamp (LO) OFF

Is the headlamp (LO) turned ON?

YES >> Headlamp (LO) is normal.

NO >> Refer to EXL-32, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001720626

1.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- Turn the ignition switch OFF.
- Disconnect the headlamp low connector.
- 3. Turn the ignition switch ON.
- 4. Select "EXTERNAL LAMP" 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.)	
Connector Terminal			LAMP		
RH	E12	20	Ground	Lo	Battery volt- age
LH		18		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 headlamp low harness connector.

IPDM E/R		Headla	Continuity	
Connector	Terminal	Connector	Terminal	Continuity

HEADLAMP (LO) CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

RH	F12	20	E74	1	Existed
LH	L 12	18	E71	1	LXISIOU

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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 (LH)	IPDM E/R	#49	15 A
Headlamp LO (RH)	IPDM E/R	#50	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
Coni	nector	Terminal	Ground	Continuity
RH	E12	20	Glound	Not existed
LH	□ IZ	18		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 (LO) GROUND OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect the headlamp low connector.
- 3. Check continuity between the headlamp low harness connector and the ground.

Headlamp low				Continuity
Coni	nector	Terminal	Ground	Continuity
RH	E74	2	Glound	Existed
LH	E71	2		Existed

Does continuity exist?

YES >> Perform the xenon headlamp diagnosis. Refer to <a>EXL-34, "Description".

NO >> Repair the harnesses or connectors.

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XENON HEADLAMP

Description INFOID:000000001838119

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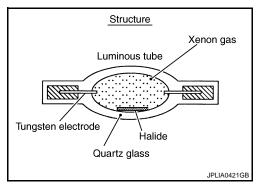
- The lamp light source is by the arch discharge by applying high voltage into the xenon gas-filled bulb instead
 of the halogen bulb filament.
- Sight becomes more natural and brighter because the amount of light are gained adequately and the color of light is sunshine-like white.
- The xenon bulb drops 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 lighting switch.
- Never work with wet hands.

CAUTION:

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

NOTE:

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

Diagnosis Procedure

INFOID:0000000001838120

1. CHECK XENON BULB

Install the normal bulb to the applicable headlamp. Check that the lighting switch 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 lighting switch is turned ON. Is the headlamp turned ON?

XENON HEADLAMP

< COMPONENT DIAGNOSIS >	[XENON TYPE]
< COMPONENT DIAGNOSIS >	

YES >> Replace HID control unit.

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

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INFOID:0000000001716402

INFOID:0000000001716403

FRONT FOG LAMP CIRCUIT

Component Function Check

1. CHECK FRONT FOG LAMP OPERATION

- Activate IPDM E/R auto active test. Refer to <u>PCS-8, "Diagnosis Description"</u>.
- Check that the front fog lamp is turned ON.

(P)CONSULT-III ACTIVE TEST

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

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

Is the front fog lamp turned ON?

YES >> Front fog lamp circuit is normal.

NO >> Refer to EXL-36, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK FRONT FOG LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Front fog lamp	IPDM E/R	#65	15 A

Is the fuse fusing?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK FRONT FOG LAMP SHORT CIRCUIT

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

IPDM E/R				Continuity
Connector		Terminal	Ground	Continuity
RH	E12	17	Giodila	Not existed
LH		16		

Does continuity exist?

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

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

3.CHECK FRONT FOG LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 4.

NO >> Replace the bulb.

4. CHECK FRONT FOG LAMP OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- 1. Disconnect the front fog lamp connector.
- Turn the ignition switch ON.
- 3. Select "EXTERNAL LAMP" of IPDM E/R active test item.

FRONT FOG LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

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

Terminals				Test item	
(+)		(-)	163t Itelli	Voltage	
	IPDM E	/R		EXTERNAL	(Approx.)
Connector		Terminal		LAMP	
RH	E12	17	Ground	Fog	Battery voltage
LH		16		Off	0 V

Is the measurement value normal?

YES >> GO TO 5.

NO >> Replace IPDM E/R.

5. CHECK FRONT FOG 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 fog lamp harness connector.

Continuity	g lamp	Front fog	IPDM E/R		
Continuity	Terminal	Connector	Terminal	nector	Conr
Existed	2	E48	17	E12	RH
LAISIEU	2	E30	16	L12	LH

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

O.CHECK FRONT FOG LAMP GROUND CIRCUIT OPEN CIRCUIT

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

Front fog lamp				Continuity
Connector Terminal		Ground	Continuity	
RH	E48	1	Giodila	Existed
LH	E30	1		Existed

Does continuity exist?

YES >> Replace the front fog lamp.

NO >> Repair the harnesses or connectors.

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[XENON TYPE]

PARKING LAMP CIRCUIT

Component Function Check

INFOID:0000000001716407

1. CHECK PARKING LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

Activate IPDM E/R auto active test. Refer to <u>PCS-8, "Diagnosis Description"</u>.

2. Check that the parking lamp is turned ON.

(P)CONSULT-III ACTIVE TEST

1. Select "EXTERNAL LAMP" 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-38, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001716408

1. CHECK PARKING LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Parking lamp	IPDM E/R	#46	10 A

Is the fuse fusing?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK PARKING LAMP SHORT CIRCUIT

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

IPDM E/R				Continuity	
Connector		Terminal	Ground	Continuity	
RH	E14	39	Glound	Not existed	
LH	∟14	38		NOI EXISIEU	

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

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

- Disconnect the parking lamp connector.
- Turn the ignition switch ON.
- Select "EXTERNAL LAMP" of IPDM E/R active test item.

PARKING LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

4. 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.)
Coi	nnector	Terminal		LAMP	
RH	E14	39	Ground	TAIL	Battery voltage
LH		38		Off	0 V

Is the measurement value normal?

YES >> GO TO 5.

NO >> Replace IPDM E/R.

5. CHECK PARKING LAMP OPEN CIRCUIT

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

Continuity	lamp	Parking	IPDM E/R		
Continuity	Terminal	Connector	Terminal	nector	Conr
Existed	1	E46	39	E14	RH
LXISIEU	1	E27	38	L14	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 parking lamp harness connector and the ground.

	Parking la	mp		Continuity
Connector Terminal		Terminal	Ground	Continuity
RH	E46	2	Giodila	Existed
LH	E27	2		LXISIGU

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

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TURN SIGNAL LAMP CIRCUIT

Description INFOID:000000001716411

BCM performs the high flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is open.

NOTE:

The turn signal lamp blinks at normal speed when using the hazard warning lamp.

Component Function Check

INFOID:0000000001716412

1. CHECK TURN SIGNAL LAMP

(P)CONSULT-III ACTIVE TEST

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

LH : Turn signal lamps (LH) ON
RH : Turn signal lamps (RH) ON
Off : Turn signal lamps OFF

Is the turn signal lamp turned ON?

YES >> Turn signal lamp circuit is normal.

NO >> Refer to EXL-40, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001716413

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

- Turn the ignition switch OFF.
- Disconnect the front turn signal lamp connector or the rear combination lamp connector.
- Turn the ignition switch ON.
- 4. With operating the turn signal switch, check the voltage between the BCM harness connector and the ground.

Terminals				Condition		
	(+)		(-)	Condition	Voltage (Approx.)	
	BCM			Turn signal	voltage (Approx.)	
Co	Connector Terminal			switch		
RH		61				
LH	M67	60	Ground	LH or RH	(V) 15 10 5 0 1 s	
				OFF	0 V	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

TURN SIGNAL LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

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3. CHECK TURN SIGNAL LAMP OPEN CIRCUIT

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

Front turn signal lamp

ВСМ		Front turn	Continuity		
Co	nnector	Terminal	Connector Terminal		Continuity
RH	M67	61	E46	2	Existed
LH	IVIO7	60	E27	3	Existed

Rear turn signal lamp

ВСМ		Rear comb	Continuity		
Co	nnector	Terminal	Connector Terminal		Continuity
RH	M67	61	B59	2	Existed
LH	IVIO7	60	B80	3	Existed

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector and the ground.

	BCM		Continuity		
Connector		Terminal	Ground	Continuity	
RH	M67	61	Ground	Not existed	
LH	IVIO7	60	1	Not existed	

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 5.

CHECK TURN SIGNAL LAMP GROUND OPEN CIRCUIT

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

Front turn signal lamp

Front turn signal lamp				Continuity
Connector Termina		Terminal	Ground	Continuity
RH	E46	2	Giodila	Existed
LH	E27	2		Existed

Rear turn signal lamp

Rear combination lamp				Continuity
Connector Terminal		Ground	Continuity	
RH	B59	4	Giodila	Existed
LH	B80	4		LXISTEG

Does continuity exist?

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

NO >> Repair the harnesses or connectors.

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HAZARD SWITCH

Component Function Check

INFOID:0000000001716417

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
		OFF	Off

Is the item status normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to EXL-42, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001716418

1. CHECK HAZARD SWITCH SIGNAL INPUT

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

	Terminals		Condition	Voltage (Approx.)	
(+)		(-)	Condition		
ВС	CM		Hazard switch	voltage (Approx.)	
Connector	Connector Terminal		Tiazaid Switch		
			ON	0 V	
M65	29	Ground	OFF	(V) 15 10 5 0 → 10ms JPMIA0154GB	

Is the measurement value normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".

NO >> GO TO 2.

2.check hazard switch signal open circuit

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

Hazard switch		В	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M45	2	M65	29	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

< COMPONENT DIAGNOSIS >

[XENON TYPE]

Hazaro	d switch		Continuity
Connector	Connector Terminal		Continuity
M45	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.

Hazaro	d switch		Continuity
Connector Terminal		Ground	Continuity
M45 1			Existed

Does continuity exist?

YES >> Replace the hazard switch.

NO >> Repair the harnesses or connectors.

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TAIL LAMP CIRCUIT

Component Function Check

INFOID:0000000001716419

NOTE:

Check the license plate lamp circuit if the tail lamp and the license plate lamp are not turned ON. Refer to <u>EXL-46</u>, "Component Function Check".

1. CHECK TAIL LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- 2. Check that the tail lamp is turned ON.

PCONSULT-III ACTIVE TEST

- 1. Select "EXTERNAL LAMP" of IPDM E/R active test item.
- 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-44, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001716420

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	IPDM E/R	#45	10 A

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK TAIL LAMP OUTPUT VOLTAGE

®CONSULT-III ACTIVE TEST

- 1. Disconnect the rear combination lamp connector.
- Turn the ignition switch ON.
- Select "EXTERNAL LAMP" 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 (Approx.)
IPDN	1 E/R		EXTERNAL	
Connector	Terminal		LAMP	
E14	37	Ground	TAIL	Battery volt- age
			Off	0 V

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace IPDM E/R.

3. CHECK TAIL LAMP OPEN CIRCUIT

Turn the ignition switch OFF.

TAIL LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

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

Continuity	ination lamp	Rear comb	IPDM E/R		
Continuity	Terminal	Connector	Terminal	Connector	C
Existed	1	B59	37	E14	RH
LAISIGU	1	B80	37	_ L14	LH

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TAIL LAMP GROUND OPEN CIRCUIT

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

Rear combination lamp				Continuity
Connector Terminal		Ground	Continuity	
RH	B59	4	Giodila	Existed
LH	B80	4		Existed

Does continuity exist?

YES >> Replace the rear combination lamp.

NO >> Repair the harnesses or connectors.

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[XENON TYPE]

LICENSE PLATE LAMP CIRCUIT

Component Function Check

INFOID:0000000001716423

1. CHECK LICENSE PLATE LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- 2. Check that the license plate lamp is turned ON.

(P)CONSULT-III ACTIVE TEST

- 1. Select "EXTERNAL LAMP" 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-46, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001716424

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

IPDM E/R		License p	Continuity		
С	onnector	Terminal	Connector	Terminal	Continuity
RH	F14	37	D196	1	Existed
LH	L14	37	D195	1	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	e lamp		Continuity
	Connector	Terminal	Ground	Continuity
RH	D196	2	Giodila	Existed
LH	D195	2		LXISIEU

Does continuity exist?

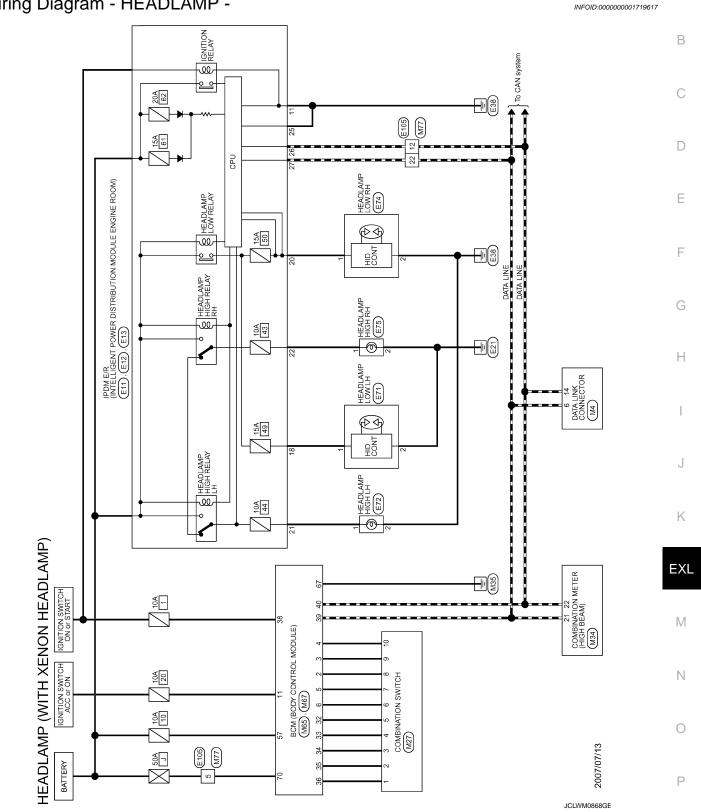
YES >> Replace the license plate lamp.

NO >> Repair the harnesses or connectors.

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HEADLAMP SYSTEM

Wiring Diagram - HEADLAMP -



Connector No. E71	Connector Name HEADLAMP LOW LH Connector Type E02FGY-RS	HS.	Terminal Color Signal Name [Specification]	Connector No. E105 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4	H.S.	Terminal Color Signal Name [Specification] No. of Wire	5 Y = -
Connector No. E13	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type TH12FW-NH	H.S. 28 27 26 25 24 23 34 33 32 31 30 29	Terminal Color Signal Name Specification Color Col	Gennector No. E75 Connector Name HEADLAMP HIGH RH Connector Type U02FB	SH.	Terminal Color Signal Name [Specification] No. of Wire	1 LG 2
P) Connector No. E12	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type NSO8FBR-CS	H.S. 17 16 15 22 21 20 19 18	Terminal Color Signal Name Specification No. of Wire Signal Name Specification No. of Wire Signal Name Specification No. of Wire Specification No. of Wire N	Connector No. E74 Connector Name HEADLAMP LOW RH Connector Type E02FGY-RS	H.S.	Terminal Color Signal Name [Specification] No. of Wire	1 SB -
₹□	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type M06FB-LC	H.S. (1110 9) [14 13 12]	Terminal Color Signal Name [Specification] 11 B S Signal Name [Specification]	Gamestor No. E72 Connector Name HEADLAMP HIGH LH Connector Type 100ZFB	#S!	Terminal Color Signal Name [Specification]	1 G – – – – – – – – – – – – – – – – – –

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		O WIRE W-CS IB-TM4	Signal Name [Specification]		В
		WIRE T TH80M	Color of Wire Sig		С
		Connector No. Connector Name Connector Type H.S.	Terminal C 5 5 112 22 22		D
(2010) 171 (2010) (2010	Infoation.	63 64 70	ification]		Е
M34 COMBINATION METER SAB40EW	Signal Name LSpot	M67 BCM (BODY CONTROL MODULE) FEAUSFIB-FHARE-SA 56 57 58 59 60 61 62 53 64 65 66 67 68 69 70	Signal Name (Specification) BAT FUSE GND BAT FL		F
2 3 4 4 see	of Wire		of Wire B G C Y Wire Y		G
Connector No. Connector Na. Connector Tyr	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Connector No.	Terminal No. 97 57 57 70 70		Н
10 9 8 7 1 2 3 4 5 6 6 Coordinated Control Manage (Control Man	Name Especimisation INPUT INPUT INPUT INPUT INPUT OUTPUT 4 INPUT OUTPUT OUT	IGN CAN+L CAN+L			I
13 11	Name of the state				J
Oemector No. Oemector Name Oemector Type H.S. Terminal Color		38 39 40 40			K
EADLAMF	To a	18 19 20 38 39 40	[S		EXL
TH XENON HEA MK CONNECTOR 11213141516 1415161718	Name (Specification)	MB5 TH40FW TH6FW S G T 8 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Signal Name (Specification) INPUT 4 INPUT 4 INPUT 3 INPUT 1 ACC OUTPUT 5 OUTPUT 4 OUTPUT 3 OUTPUT 2 OUTPUT 2 OUTPUT 3		M
MA4 DATALIN BD16FW 9 10 1	Ш	4 4 4			Ν
HEADLAN Connector No. Connector Type Mass Has Terminal Terminal Terminal Terminal Terminal	No of Wire 6 L 14 P	Connector No. Connector Name Connector Type H.S. 12.28	Terminal Color No. of Wire 2 C G G G G G G G G G G G G G G G G G G		0
				JCLWM0870GE	Р

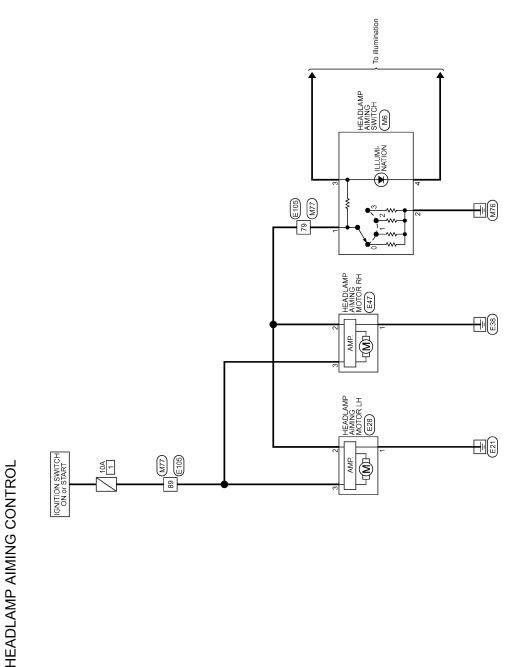
Revision: 2008 January EXL-49 2008 Rogue

HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

Description INFOID:0000000001720226

The headlamp levelizer adjusts the headlamp light axis upward and downward with the aiming motor integrated in the front combination lamp.

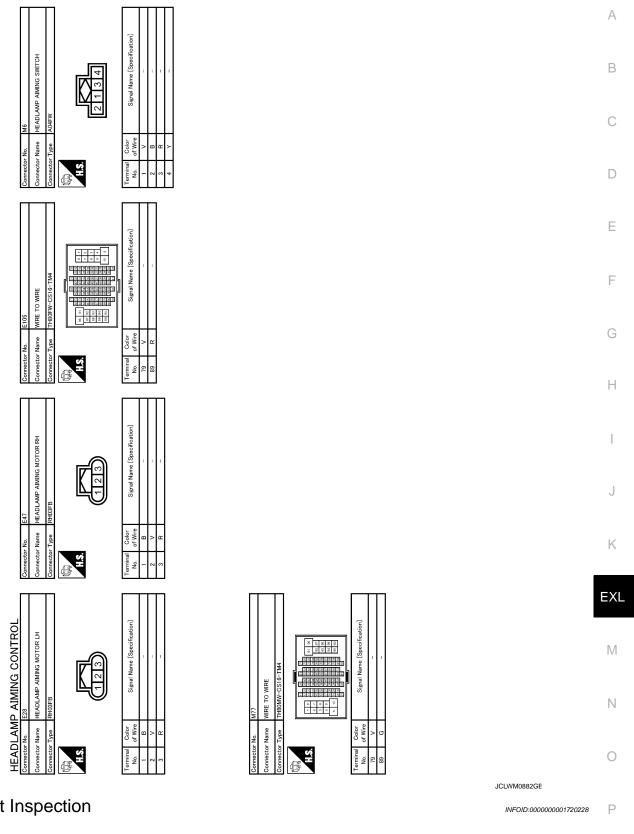
Wiring Diagram - HEADLAMP AIMING CONTROL SYSTEM (MANUAL) - INFOID:00000001720229



HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

< COMPONENT DIAGNOSIS >

[XENON TYPE]



Component Inspection

1. CHECK HEADLAMP AIMING SWITCH

Remove the headlamp aiming switch.

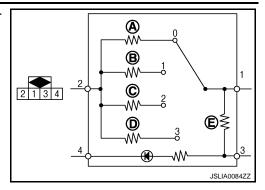
HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

< COMPONENT DIAGNOSIS >

[XENON TYPE]

Check the resistance among each headlamp aiming switch terminal.

•	aiming switch	Condition	Resistance
Te	rminal	Switch position	(Approx.)
		0	Α: 160 Ω
	2	1	B: 249 Ω
1	2	2	C: 464 Ω
		3	D: 887 Ω
	3	_	E: 412 Ω



Is the measurement value normal?

YES >> Headlamp aiming switch is normal.

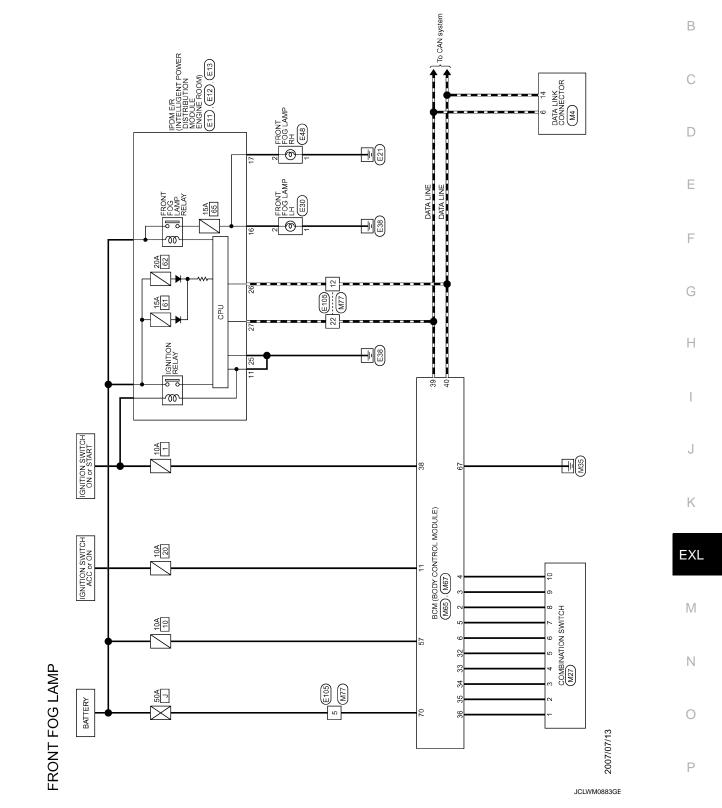
NO >> Replace the headlamp aiming switch.

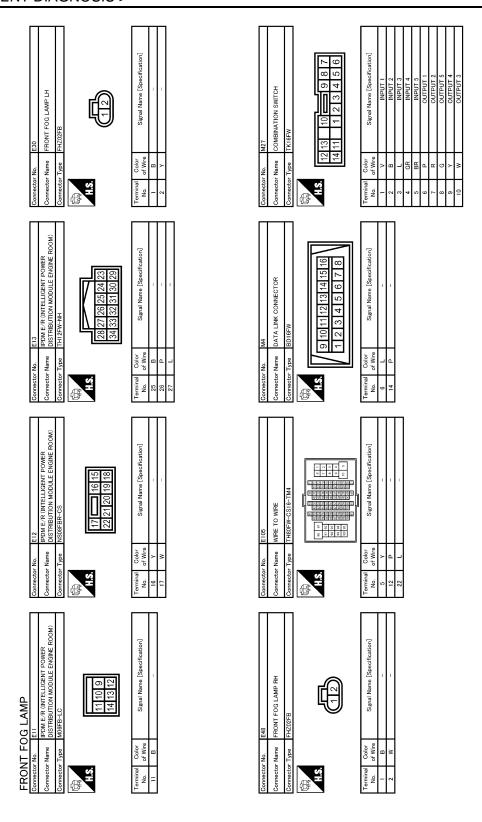
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FRONT FOG LAMP SYSTEM

Wiring Diagram - FRONT FOG LAMP -





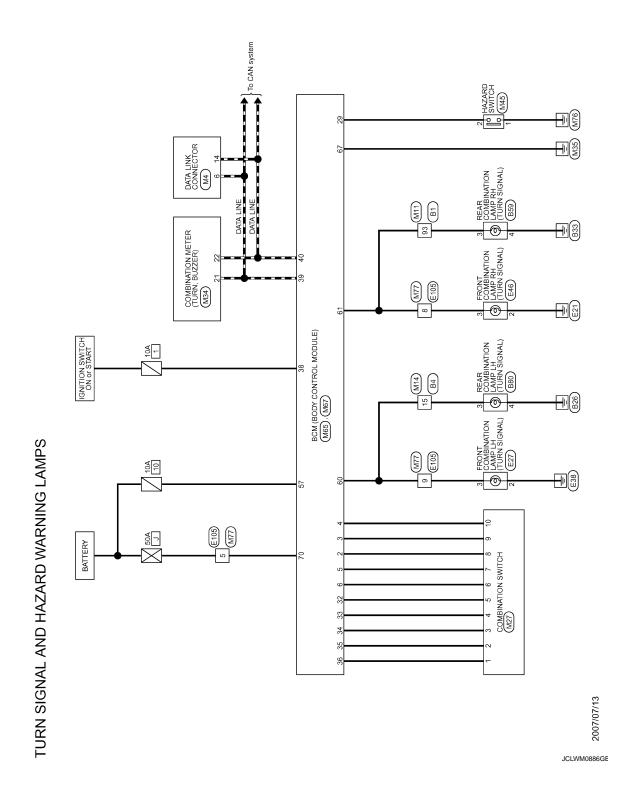
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FRONT FOG LAMP SYSTEM

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WIRE TO WIRE THISOMAN—CS16—TM4 THISOMAN—CS16—TM4 THISOMAN—CS16—TM4 Signal Name [Specification]		В
WWRE TO SECURE T		С
Connector No. Connector Name Connector Type No. Fr. Terminal Oolor Terminal Oolor S T T T T T T T T T T T T T T T T T T		D
1. ModuLE) 62 63 64 69 70 69 7		Е
		F
Sector No. Sector No. Sector Type of Wife of		G
Term Composition (Composition Composition		Н
IGN CAN-H CAN-L		I
		J
88 88 89 89 89 89 89 89 89 89 89 89 89 8		K
		EXL
C LAMP		M
0 0 0 C C C C C C C C C C C C C C C C C		Ν
Connector No. Connector No. Connector No. Connector No. Connector No. Color No		0
	JCLWM0885GE	D

Wiring Diagram - TURN AND HAZARD WARNING LAMPS -

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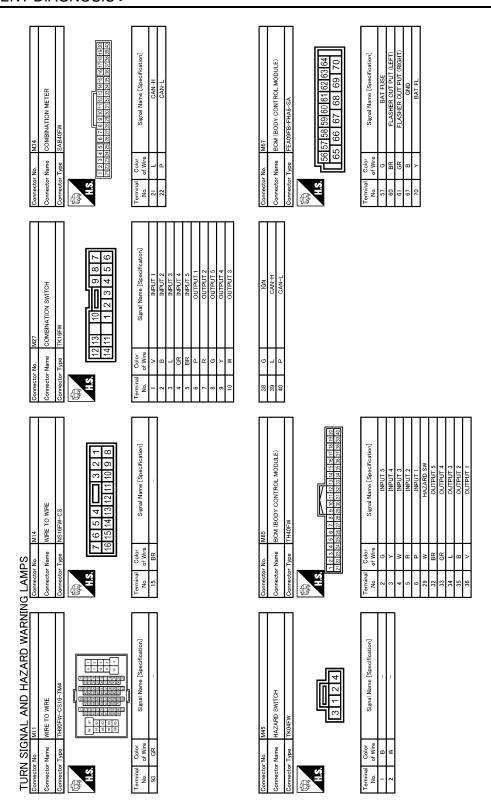
[XENON TYPE] < COMPONENT DIAGNOSIS >

Cornector No. B80 Cornector Type REAR COMBINATION LAMP LH Cornector Type NSG4MW-CS Terminal Color No. of Wive Signal Name [Specification] 3 BR 4 B	Cornector No M4 Connector No M4 Connector Name DATA LINK CONNECTOR BD16FW BD16FW BD16FW D 1/1/2 3 4 5 6 7 8		A B C
Connector No. B59 Connector Name REAR COMBINATION LAMP RH Connector Type INSG4MW-CS Terminal Color No. of Wire Signal Name [Specification] 3 W 4 B	Connector No. E105 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4 Terminal Color Signal Name (Specification) Signal Name (Specification) Signal Name (Specification)		E F G
C LAMPS Connector No. B4	Connector No. E46 Connector Name FRONT COMBINATION LAMP RH Connector Type Z03FGY H.S. Terminal Color No of Wire Signal Name [Specification] 2 B - 3 GR -		J K
TURN SIGNAL AND HAZARD WARNING Connector No. Bi	Connector No. E27 Connector Name FRONT COMBINATION LAMP LH Connector Type Z03FGY H.S. Terminal Color No. of Wire Signal Name [Specification] 2 B - 3 BR - 3 BR		M N
		JCLWM0887GE	Р

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< COMPONENT DIAGNOSIS >

[XENON TYPE]



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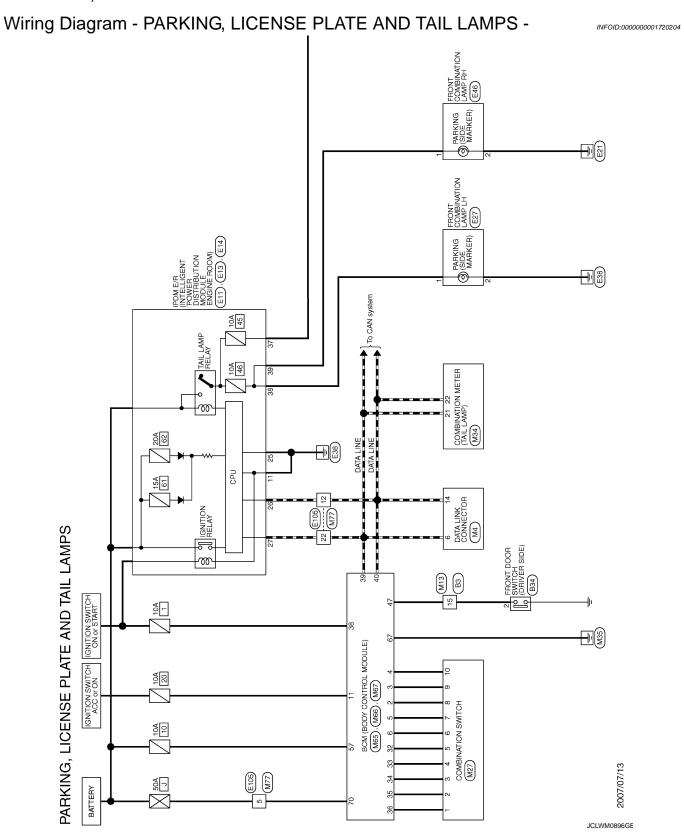
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NG LAMPS								
TURN SIGNAL AND HAZARD WARNING LAMPS	M77	WIRE TO WIRE	TH80MW-CS16-TM4		Signal Name [Specification]		-	1
I SIGI	r No.	r Name	r Type		Color of Wire	Υ	GR	BR
TUR	Connector No.	Connector Name	Connector Type	H.S.	Terminal No.	2	8	6

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM



▼ To stop lamp JCLWM0897GE Α

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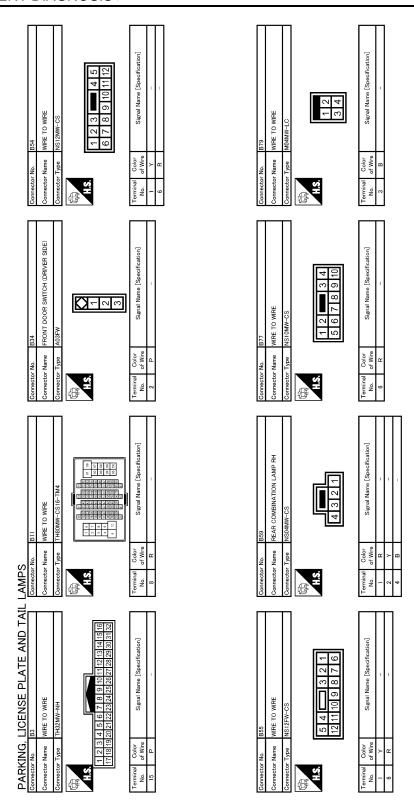
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< COMPONENT DIAGNOSIS >

[XENON TYPE]



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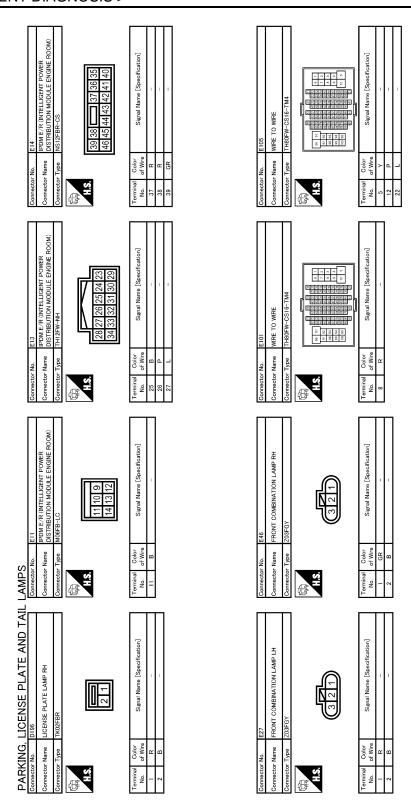
< COMPONENT DIAGNOSIS > [XENON TYPE]

Connector No. D157 Connector Name WIRE TO WIRE Connector Type NISTOFW-CIS H.S. 4 3	No. of Wre Signal Name (Specification) 6 R	Connector No. D195 Connector Name LICENSE PLATE LAMP LH Connector Type TK02FBR H.S.	Terminal Color Signal Name [Specification] 1 R 2 B		A B C
Connector No. D152 Connector Name WIRE TO WIRE Connector Type M02FW-GY-LC H.S.	Terminal Color Signal Name (Specification) 2 B	Connector Na. D182 Connector Name WIRE TO WIRE Connector Type M02MW-GY-LC H.S.	Terminal Color No. 2 B Signal Name [Specification]		E F G
Connector No. D151 Connector None WIRE TO WIRE Connector Type NSOBFBR-CS H.S. 8 7 6 5 4	Terminal Color Signal Name [Specification] 2 RR -	Connector No. DISI Connector Type INSOBMBR-CS H.S. T.	Terminal Color No. 2 R Signal Name [Specification]		J K
PARKING, LICENSE PLATE AND TAIL Connector No. B80 Connector Name REAR COMBINATION LAMP LH Connector Type NSOMMY-CS H.S. 14 3 2 1	Terminal Color Signal Name (Specification) Or Wire Signal Name (Specification)	Connector No. D159 Connector Name WIRE TO WIRE Connector Type IMO4FW-LC H.S. 2 1 4 3	Terminal Color No. of Wire 3 B B	JCLWM0899GE	M N
					Р

Revision: 2008 January EXL-63 2008 Rogue

< COMPONENT DIAGNOSIS >

[XENON TYPE]

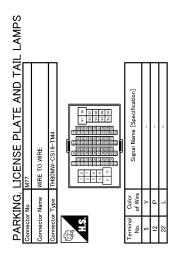


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< COMPONENT DIAGNOSIS > [XENON TYPE]

Connector No. M34 Connector Name COMBINATION METER CONNECTOR SAB40FW CONTROL OF SAB40FW CONTROL OF SAB40FW CONTROL OF SAB40FW TISS 41 S 61 T 8 9 101 1 2 2 3 4 13 10 10 1 2 3 4 13 10 10 1 2 3 3 4 13 10 2 3 4 13 10 2 3 4 13 10 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Color Signal Name [Specification]	Connector No. M67 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEAUSFE-FHAG-SA LS. T.S. FEAUSFE-FHAG-SA LS. FEAUSFE-FHAG	Perminal Color Signal Name (Specification) No. Of Wire Signal Name (Specification) Signal Name Specification Signal Name Signal Name Specification Signal Name Specification Signal Name Signal Name Signal Name Specification Signal Name Specification Signal Name Signal Name Signal Name Signal Name Specification Signal Name Signal		A B C
Connector No. M27 Connector Name COMBINATION SWITCH Connector Type TK16FW 12 13 10 9 8 7 14 11 1 2 3 4 5 6	No. Color Signal Name [Specification] Color No. Color No. Color No. Color Color No. Color Color	Connector No. M86 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEA/95PW-FHA6-SA Connector Type FEA/95PW-FHA6-SA Connector Type FA1/42 43 44 5 46 47 48 49 Connector Type FA1/42 43 44 5 6 47 48 49 Connector Type Connector	Terminal Color No. of Wire Signal Name [Specification] 47 W DR SW DR		E F G
Connector No. M13	Terminal Color No. of Wire Signal Name [Specification]	38 G IGN 39 L CAN-H 40 P CAN-H			J K
PARKING, LICENSE PLATE AND TAIL	Terminal Color No. of Wire Signal Name [Specification] 6 L - 14 P -	Connector No. M65	Terminal Color Signal Name [Specification] 2	JCLWM0901GE	M N O

Revision: 2008 January EXL-65 2008 Rogue



JCLWM0902GE

STOP LAMP

Wiring Diagram - STOP LAMP -

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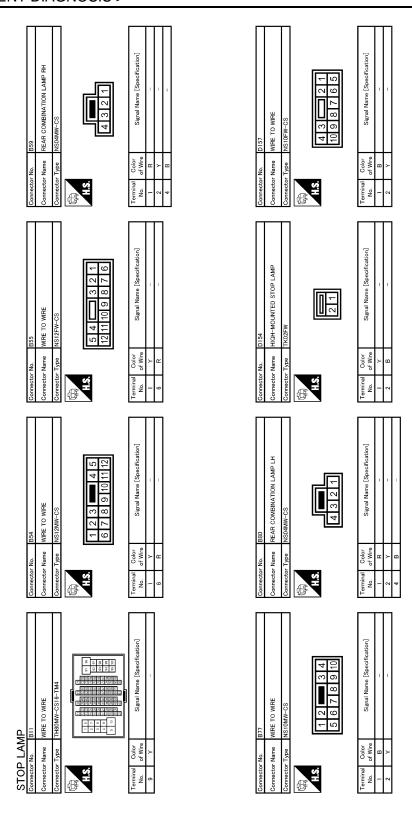
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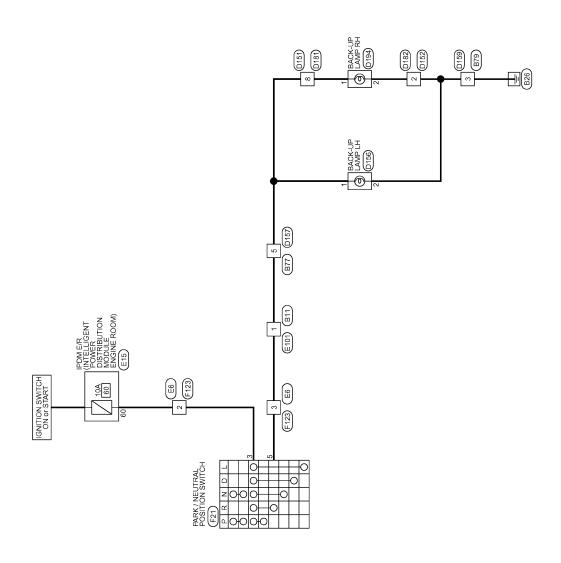
	А
WINE TO WRE THBOMW-CSIG-TM4 THBOMW-CSIG-TM4 Signal Name [Specification] Signal Name [Specification]	В
MW W H T 1 H80 WW T T O T O T O T O T O T O T O T O T	С
Connector No. Connector Name Connector Type H.S. H.S. A VWee A VWEE	D
[Jugeagou]	Е
Signal Name [Specification]	F
N. Name Oolor Color C	G
Connector Name Connector Name Connector Name Connector Type No. of your Name Connector Type No. of your Name Connector Type No. of your Name Connector Name	Н
CSI 6-TM4 CSI 6-TM4 Signal Name [Specification]	I
FEOS WRE TO WRE TH80PW-CSI 6-TM4 CSI 6-TM4 C	J
Connector No. Connector Type H.S. H.S. A V V V A V V A V V A V V A V	К
	EXL
YV-CS:16-TM4 W-CS:16-TM4 Signal Name [Specification]	M
	N
STOP LAMP Connector Name Connector Name Connector Type TH No Of Wire	0
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Revision: 2008 January EXL-69 2008 Rogue

BACK-UP LAMP

Wiring Diagram - BUCK-UP LAMP -

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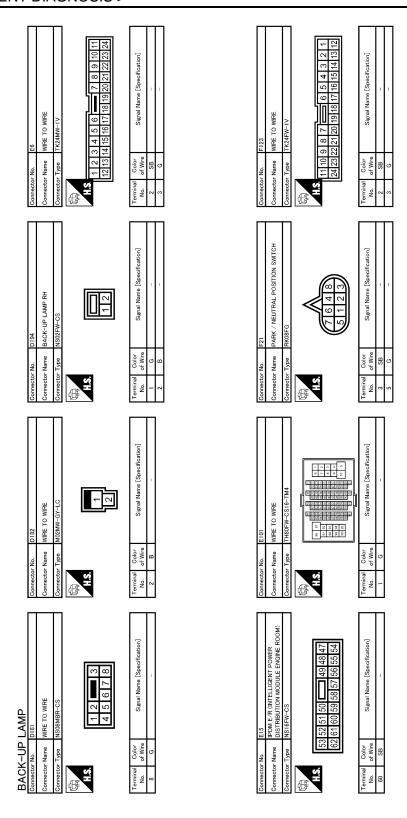


BACK-UP LAMP

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DISI WRE TO WRE NSUBFBR-CS	3 7 6 5 4	Signal Name [Specification]		WIRE TO WIRE MO4FW-LC	Signal Name [Specification]		АВ
No. Name Type		Terminal Color No. of Wire 8 G	Connector No. D159		Color No of Wire 3 B		C D
		ification]			ification]		Е
B79 WIRE TO WIRE M04MW-LC	3 4 2	Signal Name (Specification)		WIRE TO WIRE NSIGNW-CS 4 3	Signal Name [Speoification]		F
r No. r Name r Type	<i>ડ</i> ાં	of Wire B	Connector No. D157		Oolor of Wire		G
Conne	H.S.	Terminal No. 3	Conne	Connecto	Terminal No. 5		Н
	8 9 10	Signal Name [Specification]		AMP LH	Signal Name [Specification]		I
B77 WIRE TO WIRE NS10MW-CS	1 2 6 7	e s	D156	- NP L	S Sign		J
r No. r Name r Type	H.S.	Terminal Color No. of Wire 5 G	Connector No. D1		Terminal Color No. of Wire 1 Y Y Color 2 B Color 2 Col		K
ПП							EXL
IRE S16-TM4		Signal Name [Specification]		WIRE 3Y-LC	Signal Name [Specification]		M
л н –	0 h 0 0 0 0		D152				Ν
BACK-UP LAMP Connector No. BIII Connector Type TH80NW-C	H.S.	Terminal Color No. of Wire 1	Connector No.	Connector Name Connector Type H.S.	Color Colo		0
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[XENON TYPE] < ECU DIAGNOSIS >

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ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000003049971

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	`
IGN ON SW	Ignition switch OFF or ACC	Off	
IGN ON SW	Ignition switch ON	On	
KEY ON SW	Mechanical key is removed from key cylinder	Off	
RET ON SW	Mechanical key is inserted to key cylinder	On	
CDL LOCK SW	Door lock/unlock switch does not operate	Off	_ [
CDL LOCK SW	Press door lock/unlock switch to the lock side	On	
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off	-
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On	
DOOD CW DD	Driver's door closed	Off	
DOOR SW-DR	Driver's door opened	On	(
DOOD CW 40	Passenger door closed	Off	
DOOR SW-AS	Passenger door opened	On	
DOOD SW DD	Rear RH door closed	Off	
DOOR SW-RR	Rear RH door opened	On	
DOOD OW DI	Rear LH door closed	Off	
DOOR SW-RL	Rear LH door opened	On	
DACK DOOD OM	Back door closed	Off	
BACK DOOR SW	Back door opened	On	
	Other than driver door key cylinder LOCK position	Off	
KEY CYL LK-SW	Driver door key cylinder LOCK position	On	
KEY OVELEN OW	Other than driver door key cylinder UNLOCK position	Off	
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On	
VEVI 500 L 00V	"LOCK" button of key fob is not pressed	Off	
KEYLESS LOCK	"LOCK" button of key fob is pressed	On	
VEV/ 500 LINI 00V	"UNLOCK" button of key fob is not pressed	Off	
KEYLESS UNLOCK	"UNLOCK" button of key fob is pressed	On	_
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off	
	"LOCK" button of Intelligent Key or door request switch are pressed	On	
LIZEV LINIL OOK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off	
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On	
A C C C A L C L C L C L C L C L C L C L	Ignition switch OFF	Off	
ACC ON SW	Ignition switch ACC or ON	On	
DEAD DEE COM	Rear window defogger switch OFF	Off	
REAR DEF SW	Rear window defogger switch ON	On	_
	Lighting switch OFF	Off	_
LIGHT SW 1ST	Lighting switch 1ST	On	_

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BOOKEE OW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
KETLESS PAINIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
RRE LUR-UNLUR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
DIVE IVEED LINEA	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
LILDEAN CVV	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB CW/4	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
HEAD LAWP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
PASSING SW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
FR FOG SW	Front fog lamp switch OFF	Off
1 K 1 OG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
TURN SIGNAL R	Turn signal switch OFF	Off
TORN SIGNAL IX	Turn signal switch RH	On
TURN SIGNAL L	Turn signal switch OFF	Off
TORRIVOION/AE E	Turn signal switch LH	On
ENGINE RUN	Engine stopped	Off
	Engine running	On
PKB SW	Parking brake switch is OFF	Off
- NB OW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
IGN SW CAN	Ignition switch OFF or ACC	Off
ION OW CAN	Ignition switch ON	On
FR WIPER HI	Front wiper switch OFF	Off
I IX VVII LIX I II	Front wiper switch HI	On
FR WIPER LOW	Front wiper switch OFF	Off
I IN WIFER LOW	Front wiper switch LO	On

< ECU DIAGNOSIS > [XENON TYPE]

Monitor Item	Condition	Value/Status
D WIDED INT	Front wiper switch OFF	Off
R WIPER INT	Front wiper switch INT	On
ED MACHED CM	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
ED WIDED CTOD	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
/EHICLE SPEED	While driving	Equivalent to speedometer reading
25 W/DED 6M	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
20 W/250 W/T	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RR WIPER STP2	NOTE:	Off
	The item is indicated, but not monitored. NOTE:	0"
H/L WASH SW	The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch OFF	Off
	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	On
FAN ON SIG	Blower fan motor switch OFF	Off
7.11 0.11 0.10	Blower fan motor switch ON (other than OFF)	On
AID COAD CIA	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
AIR COND SW	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off
	UNLOCK button of Intelligent Key is not pressed	Off
-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
	PANIC button of Intelligent Key is not pressed	Off
-KEY PANIC	PANIC button of Intelligent Key is pressed	On
	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
	When back door opener switch is not pressed	Off
TRNK OPNR SW	When back door opener switch is pressed	On
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On

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< ECU DIAGNOSIS > [XENON TYPE]

Monitor Item	Condition	Value/Status
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On
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
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGGITEI	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGITRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGGI KLI	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
VVAINING LAWIP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DUZZEN	Tire pressure warning alarm is sounding	On

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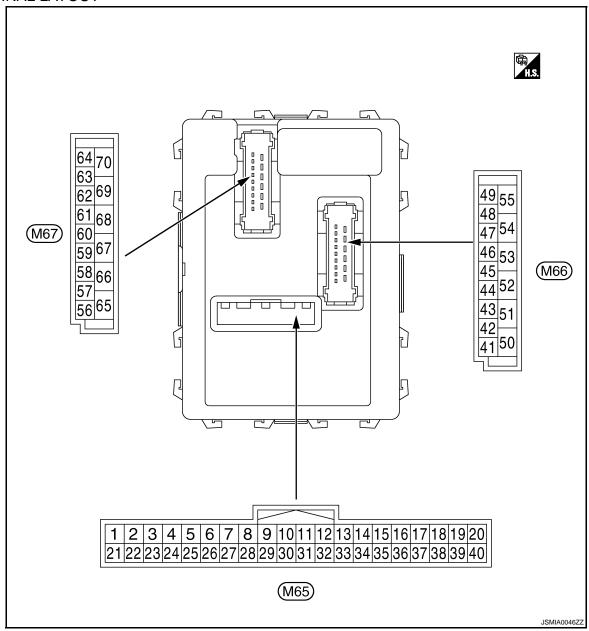
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TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

 Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.

Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-26, "COMB SW: CONSULT-III Function (BCM - COMB SW)".

• BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System <a href="Diagram".

Terminal No.		Description				Value	
(Wire	color)	Signal name	Input/	Condition		(Approx.)	
+	_	Signarrianie	Output				
1	1 Ground Ignition key hole illu-		Output	Ignition key hole	OFF	Battery voltage	
(V)	Giodila	mination control	Output	illumination	ON	0 V	

< ECU DIAGNOSIS >

Terminal No.		Description				Value	
(Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	
2 (G)	Ground	Combination switch	Input	Combination switch (Wiper intermit-	All switch OFF Turn signal switch RH Lighting switch HI Lighting switch 1ST	0 V (V) 15 10 5 0 +10ms PKIB4959J 1.0 V	
(6)		INPUT 5		tent dial 4)	Lighting switch 2ND	(V) 15 10 ++10ms PKIB4953J 2.0 V	
		Combination switch INPUT 4	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V	
					Turn signal switch LH		
					Lighting switch PASS	(V) 15	
3 (Y)	Ground				Lighting switch 2ND	10 5 0 ++10ms PKIB4959J 1.0 V	
(.)					Front fog lamp switch ON	(V) 15 10 5 0 ++10ms PKIB4956J	
					All quitab OFF	0.8 V	
					All switch OFF Front wiper switch LO	0 V	
					Front wiper switch MIST	(<u>V)</u>	
4 (W)	Ground	Combination switch Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch INT	15 10 5 0 ++10ms PKIB4959J 1.0 V		

< ECU DIAGNOSIS > [XENON TYPE]

Terminal No. (Wire color) Description					Value	
+	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	(V)
					Rear washer ON (Wiper intermittent dial 4)	(V) 15 10 5
					Any of the condition below with all switch OFF	0 + 10ms
5	0	Combination switch	laavt	Combination	Wiper intermittent dial 1Wiper intermittent dial 5	PKIB4959J
(R)	Ground	INPUT 2	Input	switch	Wiper intermittent dial 6	1.0 V
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0
					PKIB4955J	
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V)
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5
					Wiper intermittent dial 3 (All switch OFF)	++10ms PKIB4959J
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF	(V) 15 10 5 0
					Wiper intermittent dial 1Wiper intermittent dial 2	+ +10ms PKIB4952J
				Any of the condition below with all switch OFF	(V) 15 10 5 0	
				Wiper intermittent dial 6Wiper intermittent dial 7	**10ms	
						0.8 V

< ECU DIAGNOSIS >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylin- der switch	NEUTRAL position	(V) ₁₅ 10 5 0 ** 10ms JPMIA0587GB 8.0 - 8.5 V
					UNLOCK position	0 V
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 *** 10ms JPMIA0587GB 8.0 - 8.5 V
					LOCK position	0 V
9	Cround	Cton lama switch	lanus	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Stop lamp switch	Input	switch	ON (Brake pedal is depressed)	Battery voltage
10	Ground	Rear window defog-	Input	Rear window	Not pressed	Battery voltage
(SB)		ger switch	•	defogger switch	Pressed	0 V
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch O		0 V
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	Battery voltage (V) 15 10 5 0 JPMIA0586GB 7.5 - 8.0 V
					ON (When passenger door opened)	0 V
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0 → 10ms JPMIA0587GB 8.0 - 8.5 V
					ON (When rear door RH opened)	0 V

[XENON TYPE] < ECU DIAGNOSIS >

	nal No. color)	Description			Condition	Value	Δ						
+	-	Signal name	Input/ Output		Condition	(Approx.)							
15* ¹ (O)	Ground	TPMS mode trigger switch	Input	Ignition switch OFF		(V) ₁₅ 10 5 0 ++10ms JPMIA0588GB 1.5 V	C						
18* ¹ (O)	Ground	Remote keyless en- try receiver ground	Input	Ignition switch O	N	0 V							
				Without Intelligent Key system	At any condition	5 V	E						
19* ¹ (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V	F						
				Key system	3 seconds or later after ig- nition switch OFF to ON	5 V	(
										Without Intelligent Key system	At any condition	(V) ₁₅ 10 5 0	F
						NOTE: The wave form changes according to signal-receiving condition.	J						
20* ¹ (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V	k						
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) ₁₅ 10 5 0	E						
						JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.	1						
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	Battery voltage	(

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< ECU DIAGNOSIS >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
_			-		ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 15 JPMIA0590GB
						12.0 V
					OFF	Battery voltage
25 (BR)	Ground	Immobilizer anten- na signal (Rx, Tx)	Input/ Output	Ignition switch O	FF	Battery voltage
				Ignition switch OFF		
27 (Y)	Ground	nd A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) 15 10 5 0 *** 10ms JPMIA0591GB
						1.6 V
					A/C switch ON	0 V
				Ignition switch O	FF 	(V)
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0 + 10ms JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29					OFF	Battery voltage
(W)	Ground	Hazard switch	Input	Hazard switch	ON	0 V
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)	Ground	switch	Input	opener switch	Pressed	0 V

[XENON TYPE] < ECU DIAGNOSIS >

	nal No.	Description				Value	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15	
					Rear wiper switch ON (Wiper intermittent dial 4)	15	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	→ 10ms	
					Wiper intermittent dial 6 Wiper intermittent dial 7	рків4956J 1.0 V	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0	
22		Combination switch		Combination		PKIB4960J 7.2 V	
33 (GR)	Ground	OUTPUT 4	Output	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(<u>y)</u>	
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5 0	
				Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	++10ms PKIB4958J		

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< ECU DIAGNOSIS >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	5
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J 1.2 V
		Combination switch OUTPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J
35 (B)	Ground				Lighting switch 2ND	7.2 V
					Lighting switch PASS	(V) 15
					Front wiper switch INT	10 5
					Front wiper switch HI	++10ms PKIB4958J
36		, Combination switch		Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
(V)	Ground	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	(1/)
				tent diai 4)	Turn signal switch LH Front wiper switch LO (Front wiper switch MIST)	(V) 15 10 5
					Front washer switch ON	+10ms PKIB4958J
						1.2 V

[XENON TYPE] < ECU DIAGNOSIS >

	inal No. e color)	Description			O a malitica m	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Insert mechanical der		al key into ignition key cylin-	Battery voltage
(LG)		,		Remove mechar cylinder	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch O		0 V
(G)			-	Ignition switch O	N or START	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_
43 (V) Ground Back door switch	und Back door switch Input Switch	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0593GB 9.5 - 10.0 V		
					ON (When back door opened)	9.5 - 10.0 V
44				Ignition switch	Rear wiper stop position	0 V
(B)	Ground	Rear wiper auto stop	Input	ON	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 → 10ms JPMIA0591GB
					LOCK position	1.6 V
46 (BR) Gro	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Input Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 •••10ms
					UNLOCK position	JPMIA0591GB 1.6 V

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< ECU DIAGNOSIS >

	nal No.	Description			- "	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
47 (W)	Ground Ground Ground Ground Ground	round Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	
					ON (When driver door opened)	0 V	
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) ₁₅ 10 5 0 +-10ms JPMIA0594GB 8.5 - 9.0 V	
					ON (When rear door LH opened)	0 V	
49	0	Back door lamp control	Output	Back door lamp switch DOOR position	Back door is closed (Back door lamp turns OFF)	Battery voltage	
(L)	Ground				Back door is opened (Back door lamp turns ON)	0 V	
53	Cround	Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V	
(V)	Ground	back door open	Output	opener switch	Pressed (Back door actuator is activated)	Battery voltage	
55	Ground	Rear wiper motor	Output	Ignition switch	Rear wiper switch OFF	0 V	
(SB)		,	1	ON After a construct the	Rear wiper switch ON	Battery voltage	
56	Grand	Interior room lamp	Output	After passing the saver operation t	interior room lamp battery ime	0 V	
(Y)	Giound	power supply	Output		ter passing the interior room er operation time	Battery voltage	
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage	
(GR) G 49 (L) G 53 (V) G 55 (SB) G (Y) G 57 (G) G		LOCK			Other then UNLOCK (Actuator is not activated)	0 V	

< ECU DIAGNOSIS > [XENON TYPE]

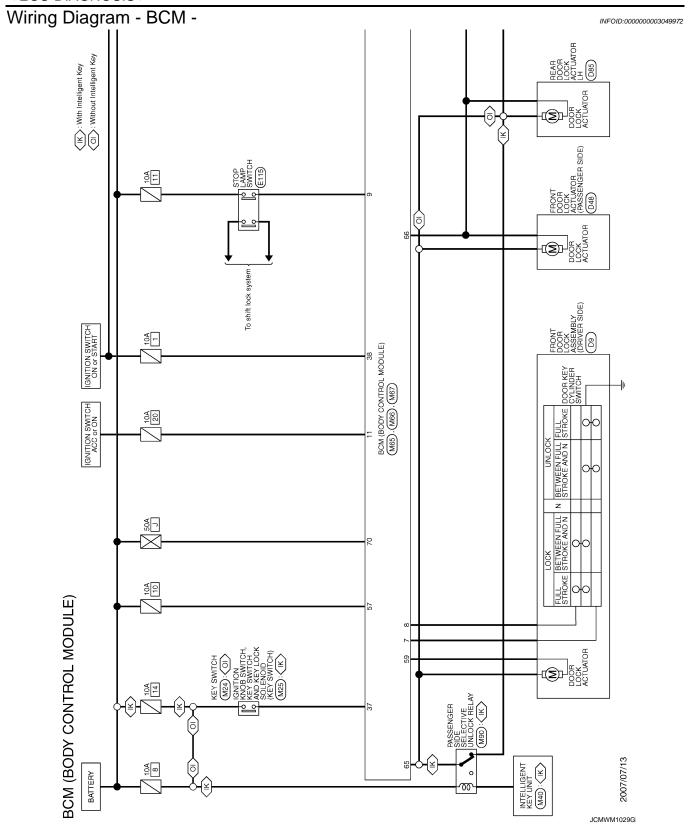
Terminal No. (Wire color)		Description				Value	
+	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	0 V	
60 (BR) Ground	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E	
					Turn signal switch OFF	0 V	
61 (GR) Ground Tu	Turn signal RH	Output	put Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0		
						1s PKIC6370E	
63 (R)	Ground	Interior room lamp timer control	Output	Interior room lamp	OFF ON	Battery voltage 0 V	
65	Crownd		Outrut		LOCK (Actuator is activated)	Battery voltage	
(V)	Ground	All doors LOCK	Output	All doors	Other then LOCK (Actuator is not activated)	0 V	
66	0	Passenger door and	Out	Passenger door	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Ground	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V	
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V	
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage	
69 (R)* ² (P)* ³	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage	
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	

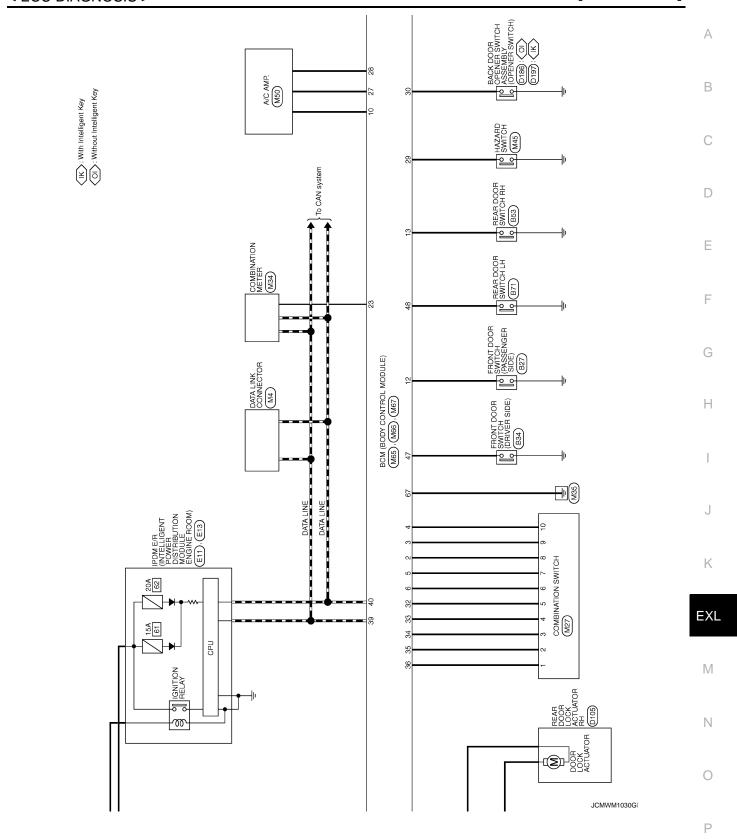
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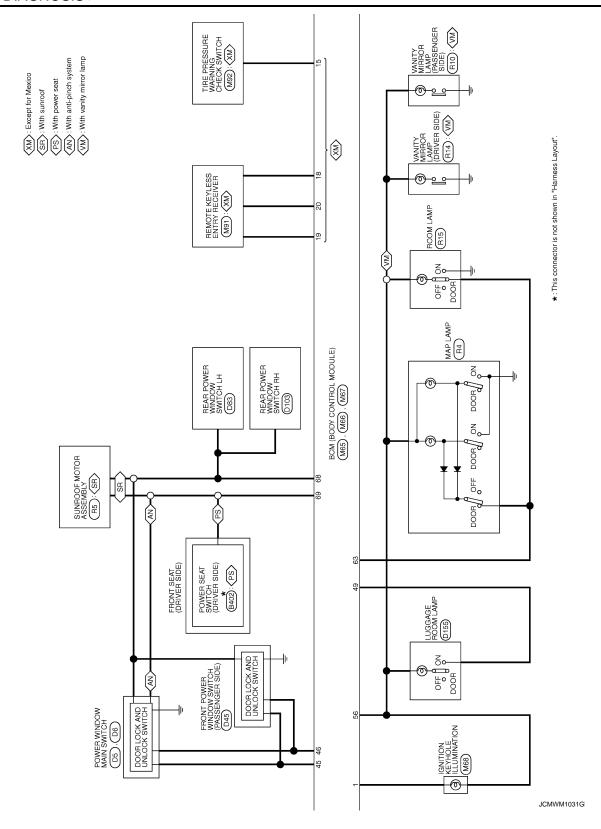
- *1: Except for Mexico
- *2: Without anti-pinch system
- *3: With anti-pinch system

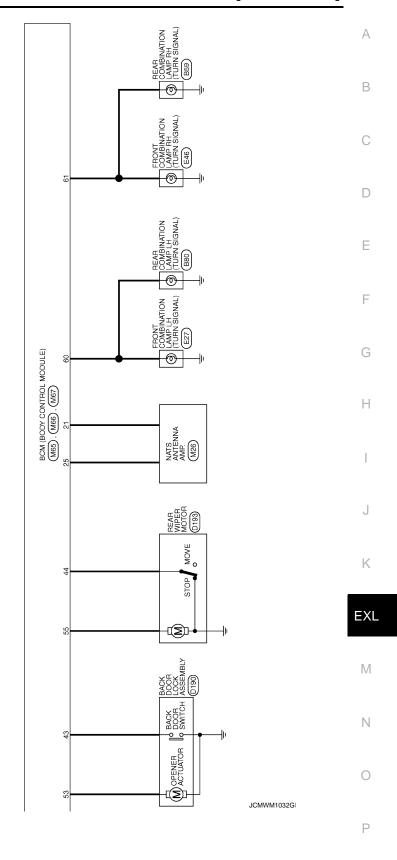
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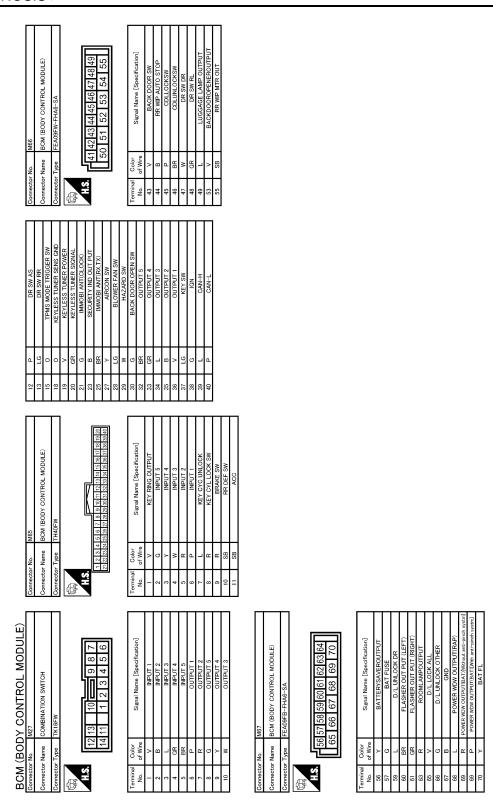
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JCMWM1033G

Fail Safe

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper auto stop signal. When the rear wiper auto stop signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

< ECU DIAGNOSIS > [XENON TYPE]

- 1. Pass more than 1 minute after the rear wiper stop.
- Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

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.

DTC Inspection Priority Chart

INFOID:0000000003049974

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Priority	DTC	<u> </u>
1	U1000: CAN COMM CIRCUIT	
2	C1735: IGN CIRCUIT OPEN	
	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR 	F
	 C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR 	F
3	 C1715: [CHECKSUM ERR] RL C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR 	I
	 C1719: [PRESS DATA ERR] RL C1720: [CODE ERR] FL C1721: [CODE ERR] FR 	J
	 C1722: [CODE ERR] RR C1723: [CODE ERR] RL C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR 	K
	 C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1729: VHCL SPEED SIG ERR 	EX

DTC Index

NOTE:

Details of time display

CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.

1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-35
C1704: LOW PRESSURE FL	X	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	X	<u>W1-14</u>
C1707: LOW PRESSURE RL	X	

< ECU DIAGNOSIS > [XENON TYPE]

ECO DIAGNOSIS >		[21211311112]
DTC	Tire pressure monitor warning lamp ON	Reference
C1708: [NO DATA] FL	×	
C1709: [NO DATA] FR	×	WT 46
C1710: [NO DATA] RR	×	- <u>WT-16</u>
C1711: [NO DATA] RL	×	
C1712: [CHECKSUM ERR] FL	×	
C1713: [CHECKSUM ERR] FR	×	WT 40
C1714: [CHECKSUM ERR] RR	×	- <u>WT-19</u>
C1715: [CHECKSUM ERR] RL	×	-
C1716: [PRESS DATA ERR] FL	×	
C1717: [PRESS DATA ERR] FR	×	W/T 22
C1718: [PRESS DATA ERR] RR	×	- <u>WT-22</u>
C1719: [PRESS DATA ERR] RL	×	-
C1720: [CODE ERR] FL	×	
C1721: [CODE ERR] FR	×	W/T 24
C1722: [CODE ERR] RR	×	- <u>WT-24</u>
C1723: [CODE ERR] RL	×	
C1724: [BATT VOLT LOW] FL	_	
C1725: [BATT VOLT LOW] FR	_	WT 27
C1726: [BATT VOLT LOW] RR	_	- <u>WT-27</u>
C1727: [BATT VOLT LOW] RL	_	
C1729: VHCL SPEED SIG ERR	×	<u>WT-30</u>
C1735: IGN CIRCUIT OPEN	_	BCS-36

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

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

Reference Value

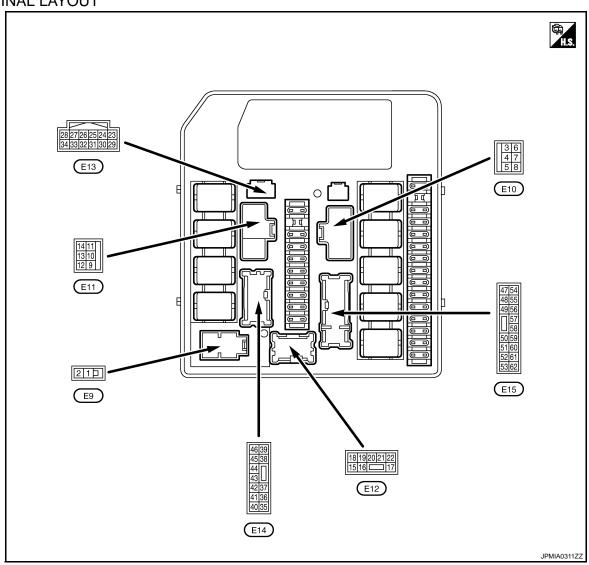
VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Value/Status	
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	1 - 4
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL & CLD DEC	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST or 2ND)	On
III 10 PEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND		On
	Lighting switch OFF	Off	
HL HI REQ	Lighting switch HI (Light is	illuminated)	On
FR FOG REQ		Front fog lamp switch OFF	Off
NOTE: This item is monitored only on the vehicle with front fog lamp.	Lighting switch 2ND		On
		Front wiper switch OFF	Stop
		Front wiper switch INT	1LOW
FR WIP REQ	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
ST RLY REQ NOTE:	When Intelligent Key is out is pushed	side the vehicle, and the push switch	Off
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is insi pushed	de the vehicle, and the push switch is	On
IGN RLY	Ignition switch OFF or ACC	;	Off
IGN IXLI	Ignition switch ON		On
		Rear window defogger switch OFF	Off
RR DEF REQ	Ignition switch ON	Rear window defogger switch ON (Rear window defogger is operating)	On
Oli B Oli	Ignition switch OFF, ACC o	r engine running	Open
OIL P SW	Ignition switch ON		Close
DTRL REQ	(Rear window defogger is ope ing) Ignition switch OFF, ACC or engine running		Off
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light syste	em is operated.	On

< ECU DIAGNOSIS > [XENON TYPE]

Monitor Item	Condition	Value/Status	
HOOD SW	Close the hood	Off	
NOTE: This item is monitored only the vehicle for Mexico.	Open the hood	On	
	Not operation	Off	
THFT HRN REQ	Horn is activated with vehicle security system or panic alarm system.	On	
LIODNI CHIED	Not operation	Off	
HORN CHIRP	Horn is activated with key fob LOCK operation.	On	

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No.				Value (Approx.)	
+ (VVire	color)	Signal name Input/ Output		Condition		
1 (R)	Ground Battery power supply Input		Ignition switch OFF	Battery voltage		
2 (G)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage	

[XENON TYPE] < ECU DIAGNOSIS >

	nal No. color)	Description			2 and dition	Value
+	-	Signal name	Input/ Output		Condition	
3	Ground	Starter relay power supply	Output	When engine is clan	king	Battery voltage
(O)	Giodila	Starter relay power supply	Output	When engine is not	clanking	0 V
4	Ground	Cooling fan relay-1 power	Output	Cooling fan opera-	OFF	0 V
(W)	Giodila	supply	tion	MID or HI	Battery voltage	
5	Ground	Ignition switch START	Input	Ignition switch OFF, ACC or ON		0 V
(R)	Olouliu	ignition switch of Aixi	прис	Ignition switch STAR	Ignition switch START	
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7	Ground	Cooling fan motor-2 (HI)			OFF	Battery voltage
(P)	Ground	ground	_		HI	0 V
8	Ground	Cooling fan relay-2 power	Outout	Cooling fan opera-	OFF	0 V
(G)	Giound	supply	Output	tion	HI	Battery voltage
11 (B)	Ground	Ground	_	Ignition switch ON		0 V
12	0	Rear window defogger re-	O tra	Innitianit ! ON!	Rear window defogger switch OFF	0 V
(O)	Ground	lay power supply	Output	utput Ignition switch ON –	Rear window defogger switch ON	Battery voltage
15* ¹		Daytime running light relay		Daytime running	Not operated	Battery voltage
(SB)	Ground	control	Output	light system	Operated	0 V
16* ²				tout	Front fog lamp switch OFF	0 V
(Y)	Ground	Front fog lamp (LH)	Output		Front fog lamp switch ON	Battery voltage
17* ²		. (D11)		Lighting switch	Front fog lamp switch OFF	0 V
(W)	Ground	Front fog lamp (RH)	Output	2ND	Front fog lamp switch ON	Battery voltage
18	0		0.1.1	Lighting switch OFF		0 V
(L)	Ground	Headlamp LO (LH)	Output	Lighting switch 2ND		Battery voltage
20	0	Handleren LO (DH)	0	Lighting switch OFF		0 V
(SB)	Ground	Headlamp LO (RH)	Output	Lighting switch 2ND		Battery voltage
24				Lighting switch OFF		0 V
21 (G)	Ground	Headlamp HI (LH)	Output	Lighting switch 2NLighting switch PA		Battery voltage
22				Lighting switch OFF		0 V
22 (LG)	Ground	Headlamp HI (RH)	Output	Lighting switch 2NLighting switch PA		Battery voltage
23	Ores consti	Oil procesureit-l-	la4	Ignition overthelt ON	Engine stopped	0 V
(W)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine running	Battery voltage
24					Front wiper stop position	0 V
24 (Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Any position other than front wiper stop position	Battery voltage
25 (B)	Ground	Ground	_	Ignition switch ON		0 V
26 (P)	_	CAN-L	Input/ Output			
27 (L)	_	CAN-H	Input/ Output		_	_

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[XENON TYPE] < ECU DIAGNOSIS >

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output	Condition		(Approx.)
31	Ground	Cooling fan relay-4 control	Output	Cooling fan operation OFF		Battery voltage
(LG)	Ground	Cooling lan relay-4 control	Output	tion	LO	0 - 1.0 V
32					kimately 2 seconds or more tion switch from ON to OFF	Battery voltage
(V) Ground	Ground	ETC relay control	Input	 Ignition switch ON For approximately tion switch from C 	2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input	Ignition switch ON	Engine stopped	Battery voltage
(0.1)				Ignition switch ON	Engine running	0.8 V
34* ³	Craund	Llood awitch	lanu.	Close the hood		Battery voltage
(W)	Ground	Hood switch	Input	Open the hood		
37	Cround	Tail, license plate lamps	Output	Lighting switch OFF		0 V
(R)	Ground	and illuminations	Output	Lighting switch 1ST		Battery voltage
38	Ground	Parking Ioma (LLI)	Outer::4	Lighting switch OFF		0 V
(R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
39	Ground	Parking Jamp (PH)	Output	Lighting switch OFF	Lighting switch OFF	
(GR)	Giodila	Parking lamp (RH)	Output	Lighting switch 1ST		Battery voltage
40	Ground	Ignition rolay nowar supply	Output	Ignition switch OFF or ACC Ignition switch ON		0 V
(BR)	Ground	Ignition relay power supply	Output			Battery voltage
41	Ground	Ignition roley power cumply	Output	Ignition switch OFF or ACC		0 V
(O)	Ground	Ignition relay power supply	Output -	Ignition switch ON		Battery voltage
42	Ground	Front winer HI	Output	Ignition switch ON	Front wiper switch OFF	0 V
(L)	Giodila	Front wiper HI		Output	Ignition switch ON	Front wiper switch HI
43	Ground	Front wiper LO	Output	Ignition switch ON _	Front wiper switch OFF	0 V
(G)	Giodila	Front wiper LO	Output		Front wiper switch LO	Battery voltage
45					Selector lever "P" or "N"	Battery voltage
(Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever in any position other than "P" or "N"	0 V
46	Ground	Fuel pump relay power	Output	Ignition switch OF After passing approafter turning the ignition	roximately 1 second or more	0 V
(W)	Ground	supply	Output	For approximately ignition switch ONEngine running	1 second after turning the	Battery voltage
47					kimately 4 seconds or more tion switch from ON to OFF	0 V
(BR)	Ground	ECM relay power supply	Output	 Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF 		Battery voltage
40				After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
48 (R)	Ground	ECM relay power supply	Output	Ignition switch ON For approximately tion switch from C	4 seconds after turning igni-	Battery voltage
50	0	Cooling for rate 5	O 4	Cooling fan opera-	OFF	Battery voltage
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V

< ECU DIAGNOSIS > [XENON TYPE]

	nal No.	Description				Value	_
+ (VVire	color)	Signal name	Input/ Output		Condition		
E1					ximately 4 seconds or more ition switch from ON to OFF	Battery voltage	_
51 (L) Groun		ECM relay control	Output	Ignition switch Of For approximately tion switch from Company	y 4 seconds after turning igni-	0 - 1.0 V	_
50					ximately 2 seconds or more ition switch from ON to OFF	0 V	_
52 (P) G	Ground	ETC relay power supply	Output	Ignition switch ON For approximately 2 seconds after turning ignition switch from ON to OFF		Battery voltage	_
		A/C relay power supply		Engine stopped		0 V	_
55			Output		A/C switch OFF	0 V	_
(O)	Ground			Output	Output	Engine running	A/C switch ON (A/C compressor is operating)
56	Cravad	Ignition quitab ON	lanut	Ignition switch OFF	or ACC	0 V	_
(L)	Ground	Ignition switch ON	Input	Ignition switch ON		Battery voltage	_
57	Cround	Llaws valou acetral	Output	The horn is not active	vated	Battery voltage	
(V)	Ground	Horn relay control	Output	The horn is activate	ed	0 V	
58	Ground	Ignition rolay nowar cumply	Output	Ignition switch OFF	or ACC	0 V	_
(LG)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage	_
59	Ground	Ignition rolay nowar cumply	Output	Ignition switch OFF	or ACC	0 V	
(BR)	Giouna	Ignition relay power supply	Output	Ignition switch ON		Battery voltage	_
60	Cround	Ignition roley newer comply	Output	Ignition switch OFF	or ACC	0 V	
(SB)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage	_
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage	

^{*1:} With daytime running light system

EXL

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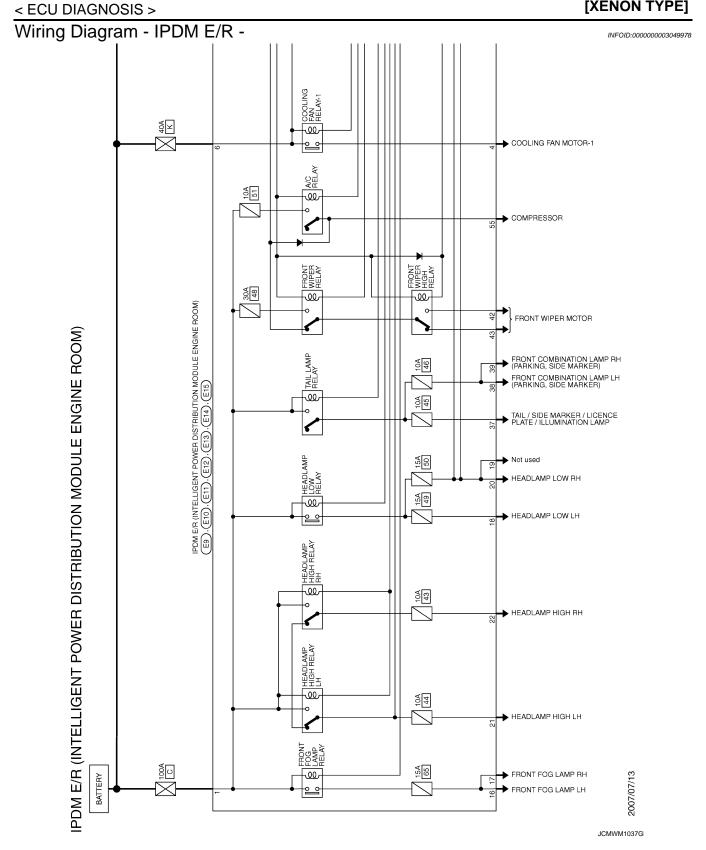
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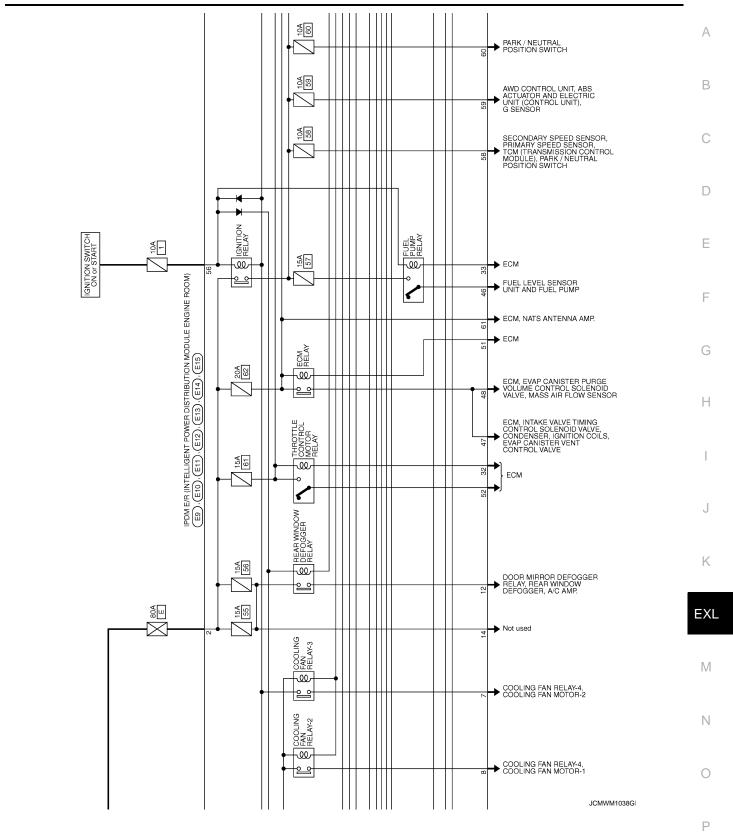
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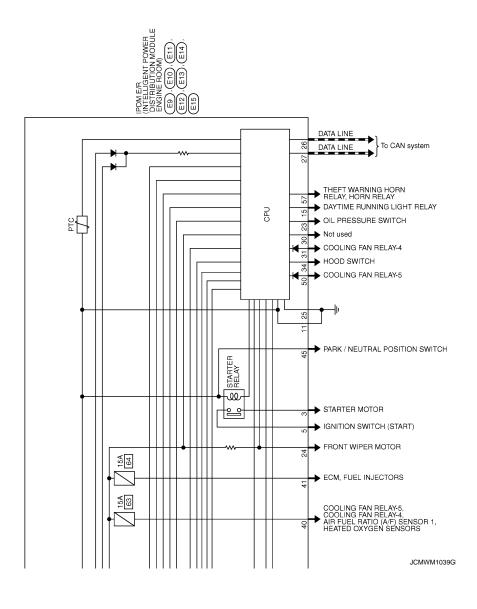
^{*2:} With front fog lamp system

^{*3:} For Mexico

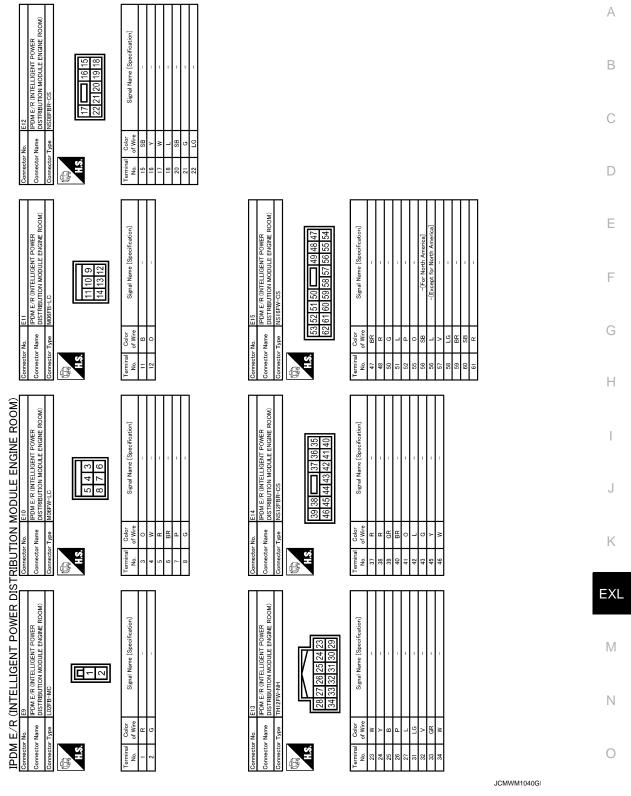


[XENON TYPE] < ECU DIAGNOSIS >





[XENON TYPE] < ECU DIAGNOSIS >



Fail Safe INFOID:0000000003049979

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

< ECU DIAGNOSIS > [XENON TYPE]

Control part	Fail-safe in operation	
Cooling fan	 The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn ON when the ignition switch is turned ON The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn OFF when the ignition switch is turned OFF Cooling fan relay-4 OFF 	
A/C compressor	A/C relay OFF	

If no CAN communication is available with BCM

Control part	Fail-safe in operation	
Headlamp	The headlamp low relay turns ON when the ignition switch is turned ON The headlamp low relay turns OFF when the ignition switch is turned OFF Headlamp high relay OFF	
Parking lampsLicense plate lampsTail lampsIlluminations	 The tail lamp relay and the daytime running light relay* turn ON when the ignition switch is turned ON The tail lamp relay and the daytime running light relay* turn OFF 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 front 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 INT mode and the front wiper motor is operating. 	
Front fog lamps	Front fog lamp relay OFF	
Starter motor	Starter relay OFF	
Rear window defogger	Rear window defogger relay OFF	
Horn	Horn relay OFF	

NOTE:

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors status of ignition relay by the voltage at ignition relay contact circuit inside it.
- IPDM E/R judges that the ignition relay is error, if status of the ignition relay and ignition switch ON signal (CAN).
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and daytime running light relay* for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Detection		IDDM E/P judgment	Operation	
Ignition switch ON signal	Ignition relay	- IPDM E/R judgment	Орегация	
ON	ON	Ignition relay normal	_	
OFF	OFF	Ignition relay normal	_	
OFF	ON	Ignition relay ON stuck	Turn on the tail lamp relay and daytime running light relay* for 10 minutes	
ON	OFF	Ignition relay OFF stuck	Detect DTC "B2099: IGN RELAY OFF"	

NOTE:

FRONT WIPER CONTROL

IPDM E/R detects the front wiper stop position with the front wiper auto stop signal.

When the front wiper auto stop signal is in the conditions listed below, IPDM E/R repeats a front wiper 10 seconds operation and 20 seconds stop five times.

^{*:} With daytime running light system

^{*:} With daytime running light system

[XENON TYPE] < ECU DIAGNOSIS >

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

DTC Index INFOID:0000000003049980

CONSULT display	Fail-safe	Timing ^{NOTE}		Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	PAST	PCS-13
B2099: IGN RELAY OFF	_	CRNT	PAST	PCS-14

NOTE:

The details of time display are as follows.

- CRNT: The malfunctions that are detected now.
- PAST: The number is indicated when it is normal at present and a malfunction was detected in the past.

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[XENON TYPE]

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table INFOID:000000001722042

CAUTION:

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

Symptom		Possible cause	Inspection item	
Headlamp (HI) is not turned ON.	One side	Fuse Halogen bulb (HI) Harness between IPDM E/R and the headlamp high IPDM E/R	Headlamp (HI) circuit Refer to <u>EXL-30</u> .	
	Both sides	Symptom diagnosis		
Headlamp (HI) is not	When ignition switch is turned ON.	"BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON" Refer to EXL-109.		
turned OFF.	When ignition switch is turned OFF.	IPDM E/R	_	
High beam indicator lamp is not turned ON. [The headlamp (HI) is turned ON.]		Combination meter	Combination meter Data monitor "HI-BEAM IND" BCM (HEAD LAMP) Active test "HEADLAMP"	
Headlamp (LO) is not turned ON.	One side	Fuse Xenon bulb (LO) Harness between IPDM E/R and the headlamp low IPDM E/R	Headlamp (LO) circuit Refer to EXL-32.	
	Both sides	Symptom diagnosis		
Headlamp (LO) is not	When ignition switch is turned ON.	"BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-110.		
turned OFF.	When ignition switch is turned OFF.	IPDM E/R	_	
Front fog lamp is not turned ON.	One side	Front fog lamp bulb Harness between IPDM E/R and the front fog lamp Front fog lamp IPDM E/R	Front fog lamp circuit Refer to EXL-36.	
	Both sides	Symptom diagnosis		
Front fog lamp is not turned ON.		"BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-112.		
Parking lamp is not turned ON.		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-38.	
Tail lamp is not turned ON.		Tail lamp bulb Harness between IPDM E/R and the rear combination lamp Rear combination lamp	Tail lamp circuit Refer to EXL-44.	
License plate lamp is not turned ON.		License plate lamp bulb Harness between IPDM E/R and the license plate lamp License plate lamp	License plate lamp circuit Refer to EXL-46.	

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

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Symptom		Possible cause	Inspection item	
Tail lamp and the license plate lamp are not turned ON.		Fuse Harness between IPDM E/R and the rear combination lamp IPDM E/R	License plate lamp circuit Refer to EXL-46.	
 Parking lamp, the tail lamp and the license plate lamp are not turned ON. Parking lamp, the tail lamp and the license plate lamp are not turned OFF. (Each illumination is turned ON/OFF.) 		Symptom diagnosis "PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-111.		
Tail lamp indicator is not turned ON. (Parking, tail lamps are turned ON.)		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. (Applicable side performs the high flasher activation.)	Harness between BCM and each turn signal lamp Turn signal lamp bulb	Turn signal circuit Refer to EXL-40.	
	Indicator lamp is included.	Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-42.	
	One side	Combination meter	_	
Turn signal indicator lamp does not blink. (Turn signal indicator lamp is normal.)	Both sides (Always)	Turn signal indicator lamp signal BCM Combination meter	Combination meter Data monitor "TURN IND" BCM (FLASHER) Active test "FLASHER"	
	Both sides (Only when activating 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-41.	
 Hazard warning lamp does not activate. Hazard warning lamp continues activating. (Turn signal is normal.) 		Hazard switchHarness between the hazard switch and BCMBCM	Hazard switch Refer to <u>EXL-42</u> .	

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

NORMAL OPERATING CONDITION

Description INFOID:0000000001720630

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.

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS > [XENON TYPE]

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description INFOID:000000001720631

Both side headlamps (HI) are not turned ON when setting to the lighting switch HI or PASS.

Diagnosis Procedure

INFOID:0000000001720632

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1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-66, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

©CONSULT-III DATA MONITOR

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

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

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-30, "Component Function Check".

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS > [XENON TYPE]

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description INFOID:000000001720633

Both side headlamps (LO) are not turned ON in any condition.

Diagnosis Procedure

INFOID:0000000001720634

1. CHECK COMBINATION SWITCH

Check the combination switch. Refer to BCS-66, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

(E) CONSULT-III DATA MONITOR

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

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

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to EXL-32, "Component Function Check".

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

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PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

Description INFOID:000000001722049

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

Diagnosis Procedure

INFOID:000000001722050

1. CHECK FUSE

Check that the following fuse is fusing.

Unit	Location	Fuse No.	Capacity
Parking lamp		#46	10 A
Tail lamp License plate lamp	IPDM E/R	#45	10 A

Is the fuse fusing?

YES >> Repair the applicable circuit. And then replace the fuse.

NO >> GO TO 2.

2.combination switch inspection

Check the combination switch. Refer to BCS-66, "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

(P)CONSULT-III DATA MONITOR

- 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	Lighting switch	1ST	On
REQ	Lighting Switch	OFF	Off

Is the item status normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

4. TAIL LAMP CIRCUIT INSPECTION

Check the tail lamp circuit. Refer to EXL-44, "Component Function Check".

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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Revision: 2008 January EXL-111 2008 Rogue

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:000000001716469

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

Diagnosis Procedure

INFOID:0000000001716470

[XENON TYPE]

1. CHECK FUSE

Check that the following fuse is fusing.

Unit	Location	Fuse No.	Capacity
Front fog lamp	IPDM E/R	#65	15 A

Is the fuse fusing?

YES >> Repair the applicable circuit. And then replace the fuse.

NO >> GO TO 2.

2. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-66, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning part.

3.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

(P)CONSULT-III DATA MONITOR

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

Monitor item	Condition		Monitor status
FR FOG REQ	Front fog lamp switch	ON	On
TRIOURLQ	(With lighting switch 1ST)	OFF	Off

Is the item status normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

4. FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-36, "Component Function Check".

Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

PRECAUTIONS

[XENON TYPE] < PRECAUTION >

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000003248992

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 AIRBAG" 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 AIRBAG".
- 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.

FOR USA AND CANADA: Precautions For Xenon Headlamp Service

WARNING:

Comply with the following warnings to prevent any serious accident.

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

CAUTION:

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

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

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000003248993

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

 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.

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PRECAUTIONS

< PRECAUTION > [XENON TYPE]

• 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 AIRBAG".

 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.

FOR MEXICO: Precautions For Xenon Headlamp Service

INFOID:0000000003248994

WARNING:

Comply with the following warnings to prevent any serious accident.

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

CAUTION:

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

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

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ON-VEHICLE MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Description INFOID:0000000001716472 В

PREPARATION BEFORE ADJUSTING

• For details, refer to the regulations in your own country.

 Perform aiming if the vehicle front body has been repaired and/or the headlamp assembly has been replaced.

Before performing aiming adjustment, check the following.

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

NOTE:

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

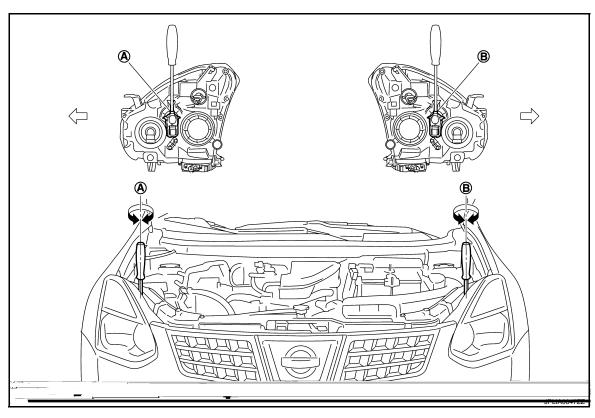
Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

- Ride alone on the driver seat.
- Headlamp aiming switch sets to "0".

AIMING ADJUSTMENT SCREW



- A. Headlamp RH (UP/DOWN) adjustment screw
- ment screw

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 □: Vehicle center

Headlamp LH (UP/DOWN) adjust-

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< ON-VEHICLE MAINTENANCE >

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

Aiming Adjustment Procedure

INFOID:0000000001888445

1. Place the screen.

NOTE:

- Stop the vehicle facing the wall.
- Place the board on a plain road vertically.
- 2. Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the headlamp bulb 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.

 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 measure- : 350 \pm 175 mm (13.78 \pm 6.89

ment range (R) in)

Low beam distribution on the screen

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

unit: mm (in)

Side view

HEADLAMP AIMING ADJUSTMENT

< ON-VEHICLE MAINTENANCE >	[XENON TYPE]	

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

screen (L)

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FRONT FOG LAMP AIMING ADJUSTMENT

Description INFOID:000000001716475

PREPARATION BEFORE ADJUSTING

NOTE:

For details, refer to the regulations in your own country.

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.)

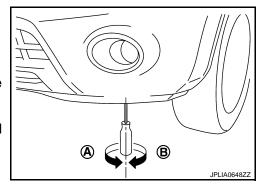
· Ride alone on the driver seat.

AIMING ADJUSTMENT SCREW

- Turn the aiming adjusting screw for adjustment.
 - A: UP
 - B: DOWN
- For the position and direction of the adjusting screw, refer to the figure.

NOTE:

A screwdriver or hexagonal wrench [6 mm (0.24 in)] can be used for adjustment.



INFOID:0000000001716476

Aiming Adjustment Procedure

1. Place the screen.

NOTE:

- Stop the vehicle facing the wall.
- Place the board on a plain road vertically.
- 2. Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the front fog lamp center and the screen.
- 3. Start the engine. Illuminate the front fog lamp.

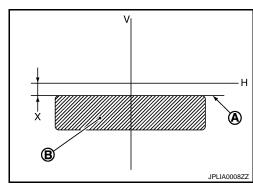
CAUTION:

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

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

4. Adjust the cutoff line height (A) with the aiming adjustment screw so that the distance (X) between the horizontal center line of front fog lamp (H) and (A) becomes 130 mm (5.12 in).

Front fog lamp light distribution on the screen



FRONT FOG LAMP AIMING ADJUSTMENT

< ON-VEHICLE MAINTENANCE >

Α : Cutoff line

Α В : High illuminance area

Н : Horizontal center line of front fog lamp В : Vertical center line of front fog lamp ٧

: Cutoff line height

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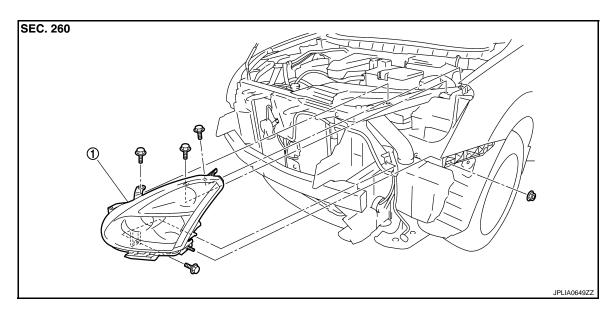
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ON-VEHICLE REPAIR

FRONT COMBINATION LAMP

Exploded View

REMOVAL



1. Front combination lamp

DISASSEMBLY



- 1. Front turn signal/parking (side marker) 2. lamp bulb
- 4. Seal packing
- 7. Retaining spring
- 10. HID control unit (Inverter)
- Front turn signal/parking (side marker) 3. lamp bulb socket
- 5. Xenon bulb socket (Starter)
- 8. Headlamp aiming motor
- 11. Halogen bulb (HI)

- . Resin cap
- 6. Xenon bulb (LO)
- 9. Seal packing
- 12. Headlamp housing assembly

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

FRONT COMBINATION LAMP

[XENON TYPE] < ON-VEHICLE REPAIR >

Removal and Installation

REMOVAL

CAUTION:

Disconnect the battery negative terminal or the fuse.

- Remove front bumper fascia. Refer to EXT-13, "Exploded View".
- Remove the headlamp mounting bolts and nuts.
- 3. Remove the mounting stud of the headlamp outside from front fender.
- Pull out the headlamp assembly forward the vehicle.
- 5. Disconnect the connector before removing the headlamp assembly.

INSTALLATION

Install in the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to EXL-115, "Description".

Replacement INFOID:0000000001716481

CAUTION:

- Disconnect the battery negative terminal or the fuse.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.

HEADLAMP BULB (LO)

- Remove the air duct*. Keep a service area. *When replace a left.
- Rotate the resin cap counterclockwise and unlock it.
- 3. Rotate the bulb socket counterclockwise and unlock it.
- Unlock the retaining spring. And remove the bulb from the headlamp housing assembly.

CAUTION:

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



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HEADLAMP BULB (HI)

- Rotate the bulb socket counterclockwise and unlock it.
- Disconnect the connector. And remove the bulb.

FRONT TURN SIGNAL/PARKING (SIDE MARKER) LAMP BULB

- Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb from the bulb socket.

Disassembly and Assembly

DISASSEMBLY

- Rotate the resin cap counterclockwise and unlock it.
- 2. Rotate the xenon bulb socket counterclockwise and unlock it.
- Unlock the retaining spring. And remove the xenon bulb (LO).
- Remove the HID control unit installation screw.
- Remove the screw. Disconnect the connector from HID control unit.

EXL-121

- 6. Remove the xenon bulb socket from headlamp housing assembly.
- Rotate the halogen bulb (HI) counterclockwise and unlock it.

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2008 Rogue

FRONT COMBINATION LAMP

< ON-VEHICLE REPAIR > [XENON TYPE]

- 8. Remove the halogen bulb from headlamp housing assembly.
- 9. Rotate the front turn signal/parking (side marker) lamp bulb socket counterclockwise and unlock it.
- 10. Remove the bulb from the front turn signal/parking (side marker) lamp bulb socket.

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

- Install HID control unit securely.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.

INFOID:0000000001716483

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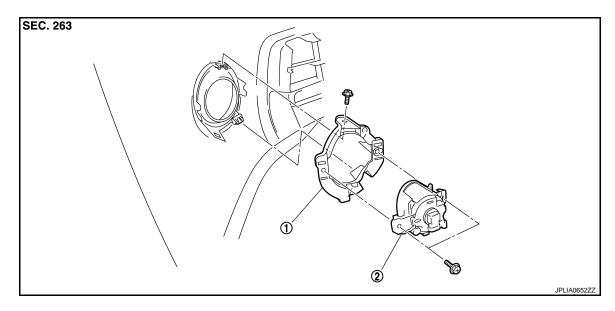
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FRONT FOG LAMP

Exploded View



1. Front fog lamp bracket

2. Front fog lamp

Removal and Installation

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- 1. Remove the front fender protector. Keep a service area. Refer to EXT-22, "Exploded View".
- 2. Remove the front fog lamp connector.
- 3. Remove the screw. And remove the front fog lamp.
- 4. Remove the screw. And remove the front fog lamp bracket.

INSTALLATION

Installation is the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to EXL-118, "Description"

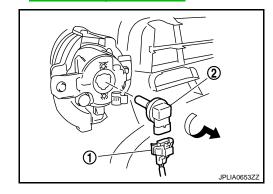
Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

FRONT FOG LAMP BULB

- 1. Remove the front fender protector. Keep the service area. Refer to EXT-22, "Exploded View".
- Remove the front fog lamp bulb connector (1).
- 3. Rotate the bulb (2) counterclockwise and unlock it.



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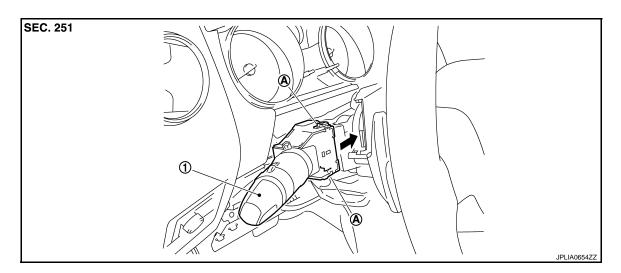
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Revision: 2008 January EXL-123 2008 Rogue

LIGHTING & TURN SIGNAL SWITCH

Exploded View



- 1. Lighting & turn signal switch
- A. Pawl

Removal and Installation

INFOID:0000000001716492

REMOVAL

- Remove steering column cover. Refer to <u>IP-12, "Exploded View"</u>.
- 2. While pressing pawls, pull the lighting & turn signal switch. And disconnect from the switch base.

INSTALLATION

Installation is the reverse order of removal.

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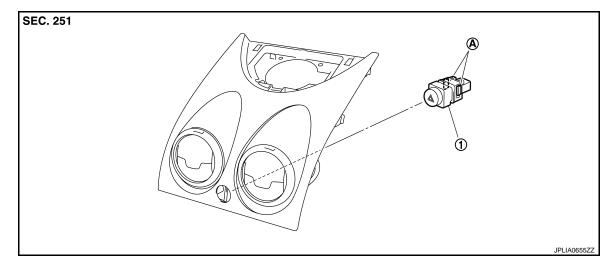
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INFOID:0000000001716497

HAZARD SWITCH

Exploded View



- 1. Hazard switch
- A. Pawls

Removal and Installation

REMOVAL

- 1. Remove the cluster lid C. Refer to IP-12, "Exploded View".
- 2. Push the pawl. And remove the hazard switch.

INSTALLATION

Install in the reverse order of removal.

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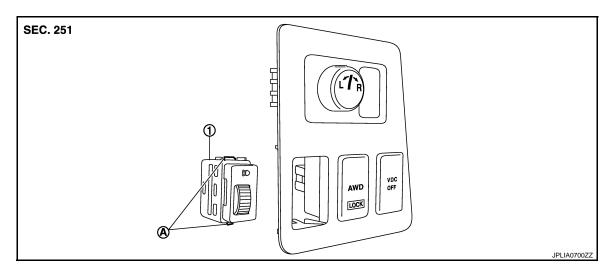
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HEADLAMP AIMING SWITCH

Exploded View



- 1. Headlamp aiming switch
- A. Pawls

Removal and Installation

INFOID:0000000001716710

REMOVAL

- 1. Remove the switch panel. Refer to IP-12, "Exploded View".
- 2. Widen the pawl. And remove the headlamp aiming switch.

INSTALLATION

Install in the reverse order of removal.

[XENON TYPE]

REAR COMBINATION LAMP

Exploded View

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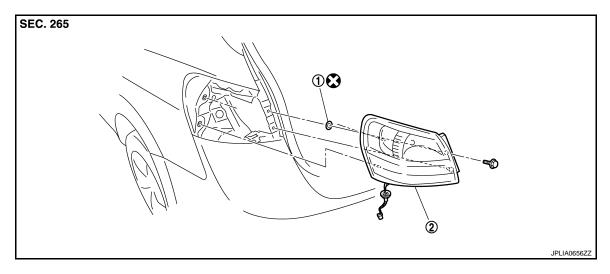
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REMOVAL

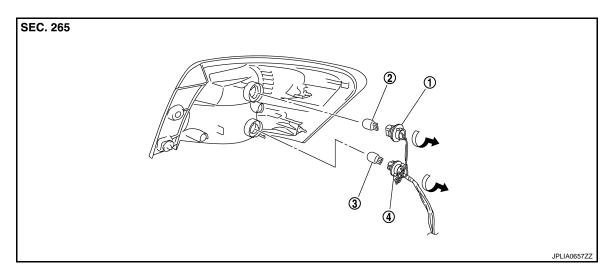


Seal packing

2. Rear combination lamp

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

DISASSEMBLY



- 1. Rear turn signal lamp bulb socket
- Stop/tail (side marker lamp) bulb socket
- Rear turn signal lamp bulb
- 3. Stop/tail (side marker lamp) bulb

Removal and Installation

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- 1. Remove the luggage side lower finisher. Refer to INT-31, "Exploded View".
- 2. Disconnect rear combination lamp connector.

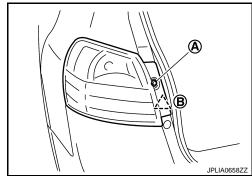
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INFOID:0000000001716503

REAR COMBINATION LAMP

< ON-VEHICLE REPAIR > [XENON TYPE]

- 3. Remove rear combination lamp mounting bolts (A).
- Turn up the back door weather strip, insert an appropriate tool between rear combination lamp and vehicles and remove a clip (B).
- 5. Pull the rear combination lamp toward rear of the vehicle. Remove the rear combination lamp.



INSTALLATION

Install in the reverse order of removal.

Replacement INFOID:000000001716504

CAUTION:

Disconnect the battery negative terminal or the fuse.

STOP/TAIL (SIDE MARKER) LAMP BULB

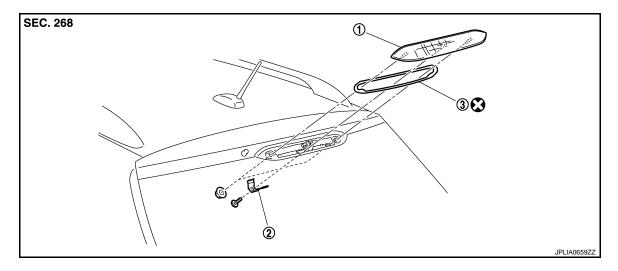
- 1. Remove rear combination lamp. Refer to EXL-127, "Exploded View".
- 2. Rotate the stop/tail (side marker lamp) bulb socket counterclockwise, and unlock it.
- 3. Remove bulb from the bulb socket.

REAR TURN SIGNAL LAMP BULB

- 1. Remove rear combination lamp. Refer to EXL-127, "Exploded View".
- 2. Rotate the rear turn signal lamp bulb socket counterclockwise, and unlock it.
- 3. Remove bulb from the bulb socket.

HIGH-MOUNTED STOP LAMP

Exploded View INFOID:0000000001716505



1. High-mounted stop lamp

2. Clip

3. Seal packing

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

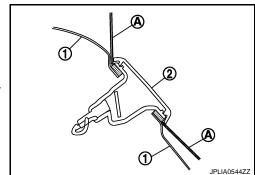
Removal and Installation

CAUTION:

Disconnect battery negative terminal or remove the fuse.

REMOVAL

- Remove the back door trim finisher upper. Refer to INT-34, "Exploded View".
- Remove the mounting nuts and clips.
- Cut the seal packing by the thin plate (A).
 - 1. Back door panel
 - 2. High-mounted stop lamp
- Pull the high-mounted stop lamp toward rear of the vehicle. Remove the high-mounted stop lamp.
- Disconnect the high-mounted stop lamp connector.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Seal packing cannot be reused.

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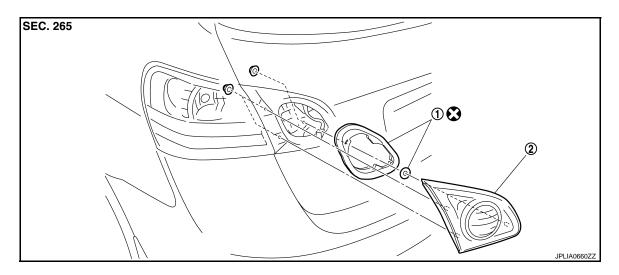
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BACK-UP LAMP

Exploded View



Seal packing

2. Back-up lamp

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

Removal and Installation

INFOID:0000000001716508

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- 1. Remove the back door mask. Refer to INT-34, "Exploded View".
- 2. Remove back-up lamp mounting nuts.
- 3. Disconnect back-up lamp connector. And remove the back-up lamp.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Seal packing cannot be reused.

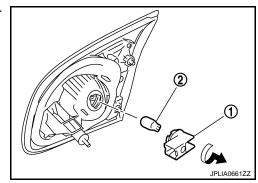
Replacement INFOID:0000000001716509

CAUTION:

Disconnect the battery negative terminal or the fuse.

BACK-UP LAMP BULB

- 1. Remove the back-up lamp. Refer to EXL-130, "Exploded View".
- 2. Disconnect the connector, rotate the bulb socket (1) counterclockwise and unlock it.
- 3. Remove the bulb (2) from the socket.



[XENON TYPE]

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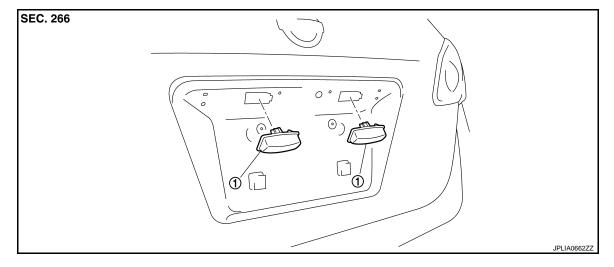
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LICENSE PLATE LAMP

Exploded View



1. License plate lamp

Removal and Installation

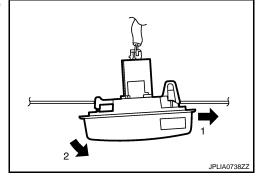
INFOID:0000000001716511

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- Remove back door trim finisher lower. Refer to <u>INT-34, "Exploded View"</u>.
- Remove back door finisher.Refer to <u>INT-34</u>, "Exploded View".
- Remove the license plate lamp in numerical order shown in the figure.
- 4. Disconnect the license plate lamp connector.



INSTALLATION

- 1. Connect the license plate lamp connector.
- Fix the pawl-side behind the license plate lamp housing first, then push the resin clip-side.

Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

LICENSE PLATE LAMP BULB

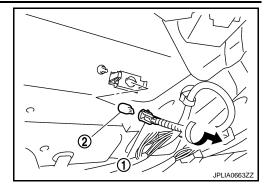
Remove back door trim finisher lower. Refer to <u>INT-34. "Exploded View"</u>.

Revision: 2008 January EXL-131 2008 Rogue

LICENSE PLATE LAMP

< ON-VEHICLE REPAIR > [XENON TYPE]

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



SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[XENON TYPE]

INFOID:0000000001716516

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

Item		Туре	Wattage (W)	
	Headlamp (HI)	HB3	60	
Front combination lamp	Headlamp (LO)	D2S (XENON)	35	
	Front turn signal/parking (side marker) lamp	S25 (Amber)	27/8	
Front fog lamp		H11	55	
	Stop/tail (side marker) lamp	W21/5W	21/5	
Rear combination lamp	Rear turn signal lamp	W21W	21	
Back-up lamp		W16W	16	
License plate lamp		W5W	5	
High-mounted stop lamp		LED	_	

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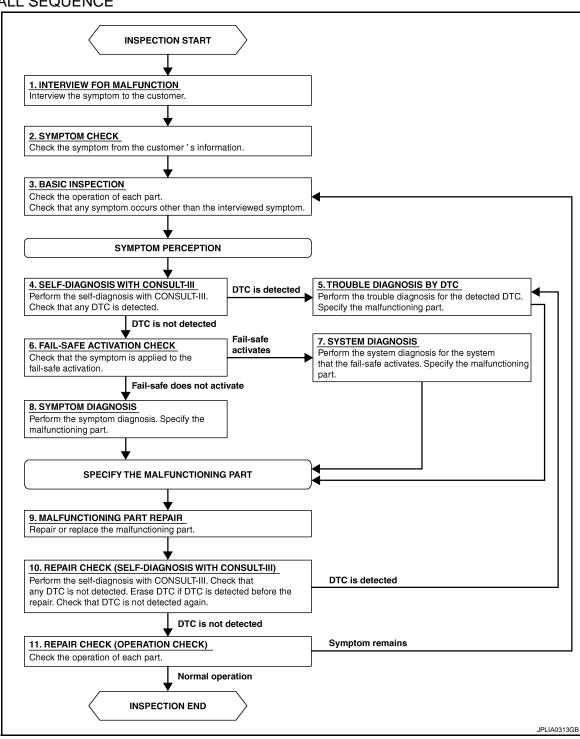
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

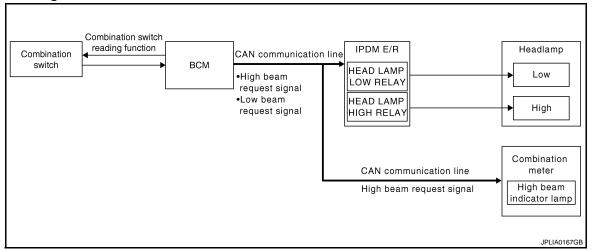
DIAGNOSIS AND REPAIR WORKFLOW	
< BASIC INSPECTION >	[HALOGEN TYPE]
>> GO TO 2.	
2.symptom check	
Check the symptom from the customer's information.	
>> GO TO 3.	
3.BASIC INSPECTION	
Check the operation of each part. Check that any symptom occurs other than the interview	ewed symptom.
>> GO TO 4.	
4.SELF-DIAGNOSIS 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 malf	unctioning 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. Educated before the repair. Check that DTC is not detected again.	Frase DTC if DTC is
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.	
110 77 00 10 0.	

FUNCTION DIAGNOSIS

HEADLAMP SYSTEM

System Diagram

INFOID:0000000001720635



System Description

INFOID:0000000001720636

OUTLINE

Headlamp is controlled by combination switch reading function and headlamp control function of BCM, and relay control function of IPDM E/R.

HEADLAMP (LO) 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 (LO) ON condition.

Headlamp (LO) ON condition

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

HEADLAMP (HI) OPERATION

• BCM transmits the high beam request signal to IPDM E/R and the combination meter with CAN communication according to the headlamp (HI) ON condition.

Headlamp (HI) ON condition

- Lighting switch HI with the lighting switch 2ND
- 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.

Component Parts Location

INFOID:0000000001720637

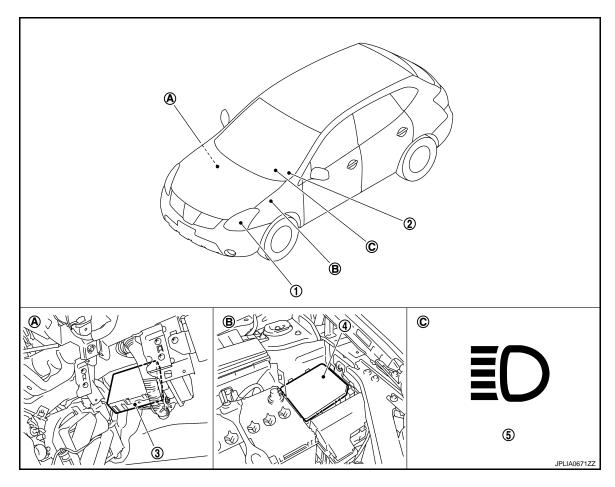
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- 1. Headlamp
- 4. IPDM E/R
- A. Over the glove box
- 2. Combination switch
- 5. High beam indicator lamp
- B. Engine room (LH)
- 3. BCM
- C. On the combination meter

Component Description

INFOID:0000000001720638

Part	Description
всм	Detects each switch condition by the combination switch reading function. Judges that the headlamp is turned ON according to the vehicle condition. Requests the headlamp relay (HI/LO) ON to IPDM E/R (with CAN communication) Requests the high beam indicator lamp ON to the combination meter (with CAN communication).
IPDM E/R	Controls the integrated relay, and supplies voltage to the load according to the reques from BCM (with CAN communication).
Combination switch (Lighting & turn signal 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).

Revision: 2008 January EXL-137 2008 Rogue

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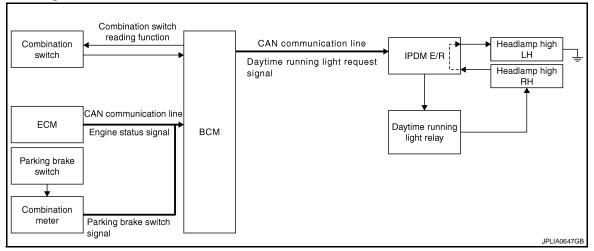
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DAYTIME RUNNING LIGHT SYSTEM

System Diagram

INFOID:0000000001716323



System Description

INFOID:0000000001716324

OUTLINE

- Turns the headlamp high ON (high beam at approximately half illumination) as the daytime running light.
- Daytime running light is controlled by daytime running light control function and combination switch reading function of BCM, and relay control function of IPDM E/R.

DAYTIME RUNNING LIGHT OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM detects the engine condition by the engine status signal received from ECM with CAN communication.
- BCM detects the parking brake condition by the parking brake switch signal received from combination meter with CAN communication.
- BCM transmits the daytime running light request signal to IPDM E/R with CAN communication according to the daytime running light ON condition.

Daytime running light ON condition

- Éngine running
- Lighting switch OFF or 1ST
- Parking brake OFF
- Ignition switch ON
- IPDM E/R controls the daytime running light relay (ground-side) to turn ON according to the daytime running light request signal.
- Power is supplied from the daytime running light relay through headlamp high (RH) and IPDM E/R to headlamp high (LH). And high beam headlamps are illuminated (approximately half illumination) as the daytime running light.

Component Parts Location

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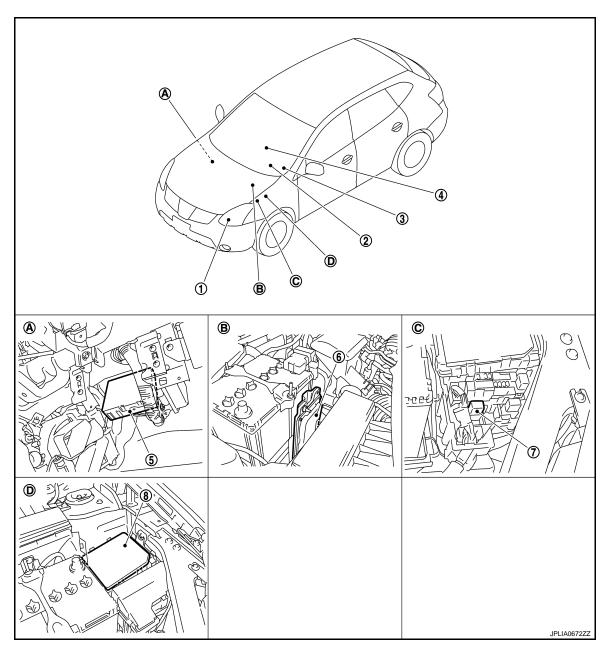
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- 1. Headlamp (HI)
- 4. Parking brake
- 7. Daytime running light relay
- A. Over the glove box
- D. Engine room (LH)

- 2. Combination meter
- 5. BCM
- 8. IPDM E/R
- B. Engine room (LH)

- 3. Combination switch
- 6. ECM
- C. Fuse and fusible link box

Component Description

INFOID:0000000001716326

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 relay and supplies voltage to the load according to the request from BCM (with CAN communication).

DAYTIME RUNNING LIGHT SYSTEM

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

Part	Description
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.

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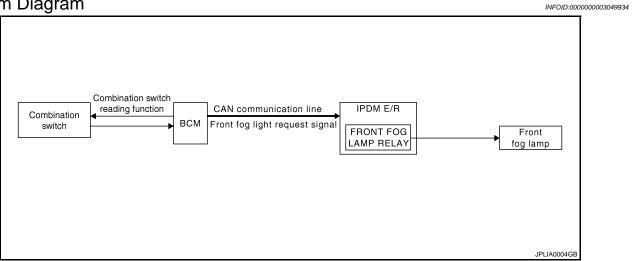
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FRONT FOG LAMP SYSTEM

System Diagram



System Description

INFOID:0000000003049935

OUTLINE

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

FRONT FOG LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front fog light request signal to IPDM E/R with CAN communication according to the front fog lamp ON condition.

Front fog lamp ON condition

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

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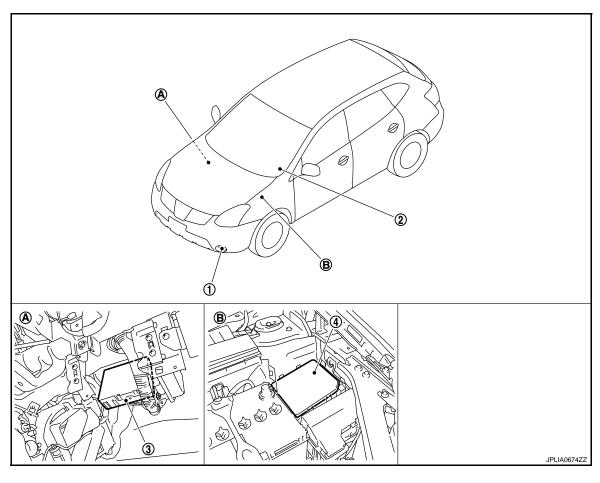
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Component Parts Location

INFOID:0000000003049936



- 1. Front fog lamp
- 4. IPDM E/R
- A. Over the glove box
- 2. Combination switch
- 3. BCM
- B. Engine room (LH)

Component Description

INFOID:0000000003049937

Part	Description
BCM	 Detects each switch condition by the combination switch reading function. Judges the front fog lamp ON/OFF status according to the vehicle condition. Requests the front fog lamp relay ON to IPDM E/R (with CAN communication).
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".

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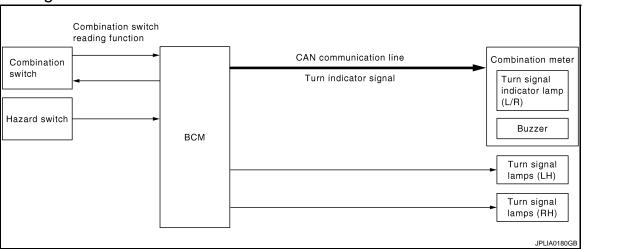
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

System Diagram



System Description

INFOID:0000000003049941

OUTLINE

Turn signal lamp 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 are 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 by the terminal 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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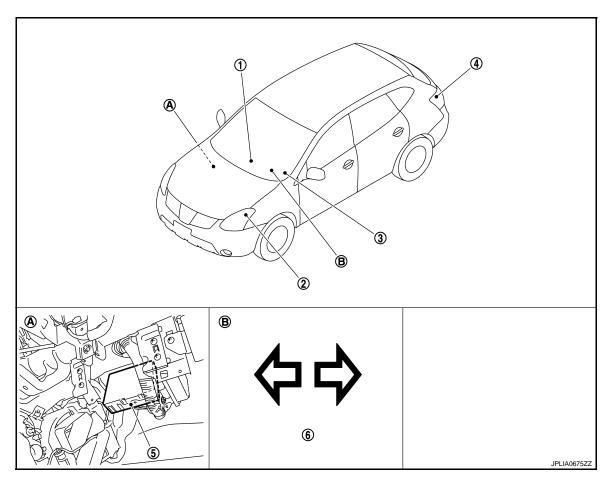
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Component Parts Location

INFOID:0000000003049942



- 1. Hazard switch
- 4. Rear turn signal lamp
- A. Over the glove box
- 2. Front turn signal lamp
- 5. BCM
- B. On the combination meter
- 3. Combination switch
- 6. Turn signal indicator lamp

Component Description

INFOID:0000000003049943

Part	Description
BCM	 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

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

INFOID:0000000003049946

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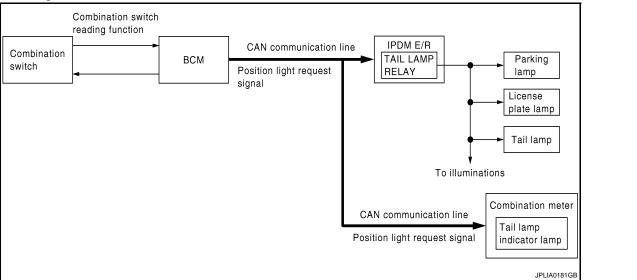
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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

System Diagram



System Description

INFOID:0000000003049947

OUTLINE

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

*: Illuminated as side maker lamps too.

PARKING. LICENSE PLATE AND TAIL 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 and tail lamps.

Parking, license plate and tail lamps ON condition

- Lighting switch 1ST
- Lighting switch 2ND
- IPDM E/R turns the integrated tail lamp relay ON and turns the parking lamp, the license plate and tail 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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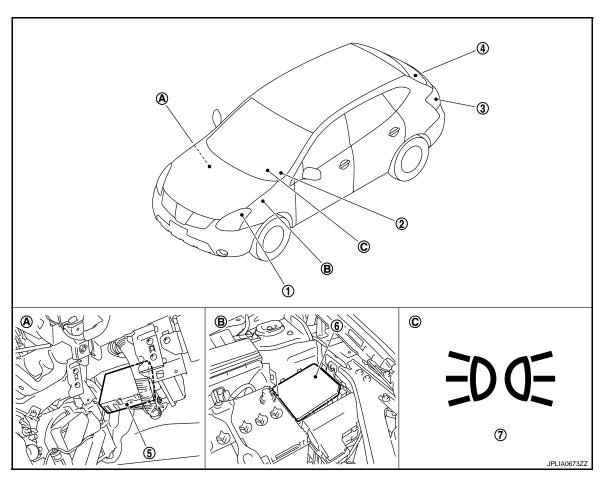
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Component Parts Location

INFOID:0000000003049948



- 1. Parking lamp (Side marker lamp)
- 4. License plate lamp
- 7. Tail lamp indicator lamp
- A. Over the glove box
- 2. Combination switch
- 5. BCM
- B. Engine room (LH)

- 3. Tail lamp (Side marker lamp)
- 6. IPDM E/R
- C. On the combination meter

Component Description

INFOID:0000000003049949

Part	Description		
BCM	 Detects each switch condition by the combination switch reading function. Judges the ON/OFF status of the parking, license plate and tail 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).		

EXTERIOR LAMP BATTERY SAVER SYSTEM

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

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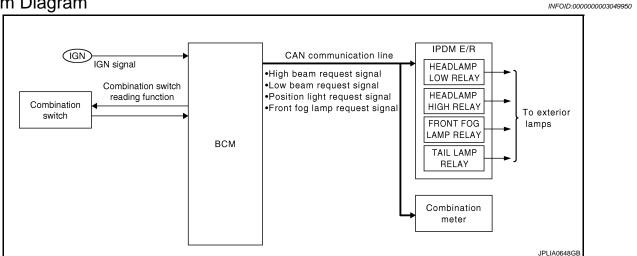
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EXTERIOR LAMP BATTERY SAVER SYSTEM

System Diagram



System Description

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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 and front fog lamp

EXTERIOR LAMP BATTERY SAVER ACTIVATION

BCM activates the timer and turns the exterior lamp OFF 5 minutes after the ignition switch is turned from ON → OFF with the exterior lamps ON.

NOTE:

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

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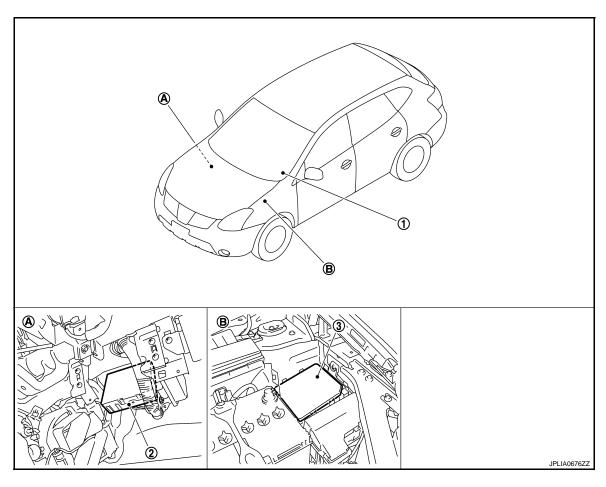
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Component Parts Location

INFOID:0000000003049953



- 1. Combination switch
- A. Over the glove box
- 2. BCM
- B. Engine room (LH)

3. IPDM E/R

Component Description

INFOID:0000000003049954

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

[HALOGEN TYPE]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description		
ECU Identification	BCM part number is displayed.		
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to EXL-93, "DTC Index".		
Data Monitor	BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Work Support	Changes the setting for each system function.		
Configuration	Read and save the vehicle specification.Write the vehicle specification when replacing BCM.		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from 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

Custom	CONSULT-III	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		×	X	
Interior room lamp control	INT LAMP	×	×	×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	X	
Exterior lamp	HEAD LAMP	×	×	X	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER		×	X	
Air conditioner	AIR CONDITONER		×		
Intelligent Key system	INTELLIGENT KEY		×		
Combination switch	COMB SW		×		
_	BCM	×			
Immobilizer	IMMU		×	X	
Interior room lamp battery saver BATTERY SAVER		×	×	X	
Back door open TRUNK			×	×	
Vehicle security system THEFT ALM		×	×	×	
RAP system	RETAINED PWR	×	×	X	
Signal buffer system	SIGNAL BUFFER		×	×	
_	FUEL LID*				
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×	
Panic alarm system	PANIC ALARM			X	

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

HEADLAMP

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

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

INFOID:0000000002993009

WORK SUPPORT

Service item	Setting item	Setting
BATTERY SAVER SET	On*	With the exterior lamp battery saver function
BATTERT GAVER GET	Off	Without the exterior lamp battery saver function
	MODE 1	
	MODE 2	
	MODE 3	
ILL DELAY SET	MODE 4	NOTE:
ILL DELAT SET	MODE 5	The item is indicated, but not operate
	MODE 6	
	MODE 7	
	MODE 8	

^{*:} Initial setting

DATA MONITOR

Monitor item [Unit]	Description		
IGN ON SW [On/Off]	Ignition switch (ON) status judged from IGN signal (ignition power supply)		
HI BEAM SW [On/Off]			
HEAD LAMP SW1 [On/Off]			
HEAD LAMP SW2 [On/Off]	Each switch status that BCM judges from the combination switch reading function		
LIGHT SW 1ST [On/Off]	- Each switch status that BCW judges from the combination switch reading function		
PASSING SW [On/Off]			
FR FOG SW [On/Off]			
AUTO LIGHT SW [On/Off]	NOTE:		
RR FOG SW [On/Off]	The item is indicated, but not monitored		
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)		
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)		
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH		
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH		
BACK DOOR SW [On/Off]	The switch status input from back door switch		

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

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Monitor item [Unit]	Description		
TURN SIGNAL R [On/Off]	Each quitch status that PCM judges from the combination quitch reading function		
TURN SIGNAL L [On/Off]	Each switch status that BCM judges from the combination switch reading function		
ENGINE RUNNING [On/Off]	The engine status received from ECM with CAN communication		
PKB SW [On/Off]	The parking brake switch status received from combination meter with CAN communication		
CARGO LAMP SW [On/Off]	NOTE:		
OPTICAL SENSOR [V]	The item is indicated, but not monitored		

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 tail lamp request signal transmission.		
	Hi	Transmits the high beam request signal with CAN communication to turn the headlamp (HI).		
HEAD LAMP	Lo	Transmits the low beam request signal with CAN communication to turn the headlamp (LO).		
	Off	Stops the high & low beam request signal transmission.		
FR FOG LAMP	On	Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON.		
	Off	Stops the front fog lights request signal transmission.		
DAYTIME RUNNING LIGHT	On	Transmits the daytime running light request signal to IPDM E/R with CAN communication to turn the daytime running lights ON.		
	Off	Stops the daytime running light request signal transmission.		

FLASHER

FLASHER: CONSULT-III Function (BCM - FLASHER)

INFOID:0000000003049961

DATA MONITOR

Monitor item [Unit]	Description
IGN ON SW [On/Off]	Ignition switch (ON) status judged from IGN signal (ignition power supply)
HAZARD SW [On/Off]	The switch status input from the hazard switch
TURN SIGNAL R [On/Off]	Fach quitable condition that DCM indeed from the combination quitable reading function
TURN SIGNAL L [On/Off]	Each switch condition that BCM judges from the combination switch reading function
BRAKE SW [On/Off]	The switch status input from the stop lamp switch

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

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

Diagnosis Description

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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
- Rear window defogger
- Front wiper (LO, HI)
- Parking lamps
- License plate lamps
- Tail lamps
- Front fog lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan (LO, MID, HI)

Operation procedure

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

NOTE:

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

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

CAUTION:

Close passenger door.

Turn the ignition switch ON within 10 seconds. Then the horn sounds once and the auto active test starts.
 NOTE:

Only a vehicle with the vehicle security system, the horn sounds.

- 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.

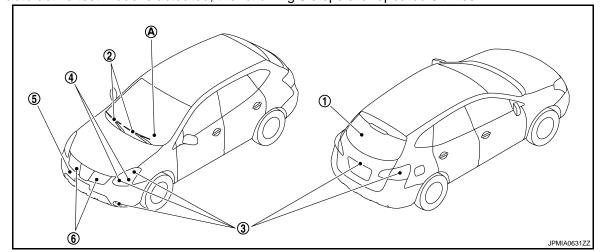
NOTE:

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

- If auto active test mode cannot be actuated, check door switch system.
- Never start the engine.

Inspection in auto active test mode

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



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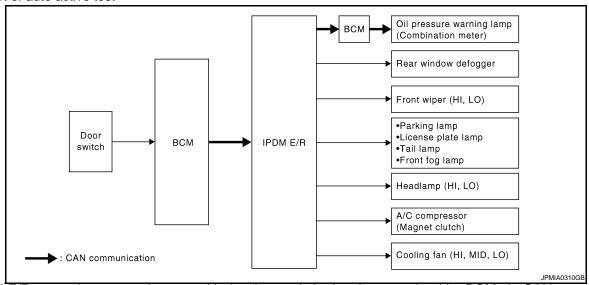
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< FUNCTION DIAGNOSIS >

Operation sequence	Inspection location	Operation
А	Oil pressure warning lamp	Blinks continuously during operation of auto active test.
1	Rear window defogger	10 seconds
2	Front wiper	LO for 5 seconds → HI for 5 seconds
3	 Parking lamps License plate lamps Tail lamps Front fog lamps Headlamps HI (daytime running light operation)* 	10 seconds
4	Headlamps	LO ⇔ HI 5 times
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times
6	Cooling fan	LO for 5 seconds \rightarrow MID for 3 seconds \rightarrow HI for 2 seconds

NOTE:

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
Rear window defogger does not operate	Perform auto active test. Does the rear window defogger operate?	NO	Rear window defogger Rear window defogger ground circuit Harness or connector between IPDM E/R and rear window defogger IPDM E/R
Any of the following components do not operate		YES	BCM signal input circuit
 Parking lamps License plate lamps Tail lamps Front fog lamps Headlamps (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

^{*:} With daytime running light system

< FUNCTION DIAGNOSIS >

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Symptom	Inspection contents		Possible cause	
Headlamps HI (daytime running light operation) do	Perform auto active test. Do headlamps HI (daytime	YES	CAN communication signal between ECM and BCM CAN communication signal between combination meter and BCM BCM signal input circuit	
not operate	running light operation) operate?	NO	 Daytime running light relay power supply circuit Harness or connector between IPDM E/R and daytime running light relay Daytime running light relay 	
A/C compressor does not operate	Perform auto active test. Does the magnet clutch oper-	YES	BCM signal input circuit CAN communication signal between BCM and ECM CAN communication signal between ECM and IPDM E/R	
	ate?	NO	Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R	
Oil pressure warning lamp does not operate	Perform auto active test. Does the oil pressure warning lamp blink?	YES	Harness or connector between IPDM E/R and oil pressure switch Oil pressure switch IPDM E/R	
		NO	 CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and combination meter Combination meter 	
		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 motor-2 power supply circuit Cooling fan motor-1 ground circuit Cooling fan relay-4 or cooling fan relay-5 power supply circuit Cooling fan relay-5 ground circuit Harness or connector between IPDM E/R and cooling fan motor Harness or connector between IPDM E/R, and cooling fan relay-4 or cooling fan relay-5 Harness or connector between cooling fan motor-2, and cooling fan relay-4 or cooling fan relay-5 Cooling fan relay-4 or cooling fan relay-5 Cooling fan motor IPDM E/R 	

CONSULT-III Function (IPDM E/R)

INFOID:0000000003049966

APPLICATION ITEM

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

Diagnosis mode	Description
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.

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

Diagnosis mode Description	
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

Refer to EXL-105, "DTC Index".

DATA MONITOR

Monitor item

Monitor Item [Unit]	MAIN SIGNALS	Description
MOTOR FAN REQ [1 - 4]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.
FR FOG REQ [Off/On]	×	Displays the status of the front fog light request signal received from BCM via CAN communication. NOTE: This item is monitored only the vehicle with front fog lamp system.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper auto stop signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
ST RLY REQ [Off/On]		Displays the status of the starter request signal.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
RR DEF REQ [Off/On]	×	Displays the status of the rear defogger request signal received from BCM via CAN communication.
OIL P SW [Open/Close]		Displays the status of the oil pressure switch 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.
HOOD SW [Off/On]		Displays the status of the hood switch judged by IPDM E/R. NOTE: This item is monitored only the vehicle for Mexico.
THFT HRN REQ [Off/On]		Displays the status of the horn request signal by vehicle security system or panic alarm system received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn request signal by key fob LOCK operation received from BCM via CAN communication.

ACTIVE TEST

Test item

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

Test item	Operation	Description		
REAR DEFOGGER	Off	OFF		
REAR DEFOGGER	On	Operates the rear window defogger relay.		
	Off	OFF		
FRONT WIPER	Lo	Operates the front wiper relay.		
	Hi	Operates the front wiper relay and front wiper high relay.		
	1	OFF		
MOTOR FANI	2	Operates the cooling fan relay (LO operation).		
MOTOR FAN	3	Operates the cooling fan relay (MID operation).		
	4	Operates the cooling fan relay (HI operation).		
	Off	OFF		
	TAIL	Operates the tail lamp relay and the daytime running light relay. NOTE: Daytime running light relay is with daytime running light system only.		
EXTERNAL LAMPS	Lo	Operates the headlamp low relay.		
EXTERNAL LAWII O	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 4 seconds intervals.		
	Fog	Operates the front fog lamp relay. NOTE: This item can test only the vehicle with front fog lamp system.		
HORN	On	Operates horn relay for 20 ms.		

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[HALOGEN TYPE]

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

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1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

Signal name	Fuses and fusible link No.
Pottony power cumply	10
Battery power supply	J
ACC power supply	20
Ignition power supply	1

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.
- 3. Check voltage between BCM harness connector and ground.

Terminals		Ignition switch position			
(+) BCM		(–)	ignition switch position		
			OFF	ACC	ON
Connector	Terminal		011	ACC	ON
M67	70	Battery		Battery	Battery
IVIO7	57		voltage	voltage	voltage
M65	11	Ground	Approx. 0 V	Battery voltage	Battery voltage
WOJ	38		Approx. 0 V	Approx. 0 V	Battery 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.

ВСМ			Continuity
Connector Terminal		Ground	Continuity
M67	67		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) : Di-

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

agnosis Procedure

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1. CHECK FUSIBLE LINK

Check that the following IPDM E/R fusible link is not blown.

Signal name	Fusible link No.
	С
Battery power supply	E
	K

Is the fusible link fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

(+)			Voltage
IPDM E/R		(-)	(Approx.)
Connector	Terminal		
E9	1	Ground	
L9	2	Glound	Battery voltage
E10	6		

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

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

IPDM E/R			Continuity	
Connector Terminal		Ground	Continuity	
E11	11	Glound	Exist	
E13	25		LXISt	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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EXTERIOR LAMP FUSE

Description INFOID:000000001716583

Fuse list

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	#44	10 A
Headlamp HI (RH)	IPDM E/R	#43	10 A
Headlamp LO (LH)	IPDM E/R	#49	15 A
Headlamp LO (RH)	IPDM E/R	#50	15 A
Daytime running light	FUSE AND FUSIBLE LINK BLOCK	#33	10 A
Front fog lamp	IPDM E/R	#65	15 A
Parking lamp	IPDM E/R	#46	10 A
Tail lamp License plate lamp Each illumination	IPDM E/R	#45	10 A
Stop lamp	FUSE BLOCK (J/B)	#11	10 A
Back-up lamp	IPDM E/R	#60	10 A

Diagnosis Procedure

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1.CHECK FUSE

Check that the following fuses are not fusing.

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	#44	10 A
Headlamp HI (RH)	IPDM E/R	#43	10 A
Headlamp LO (LH)	IPDM E/R	#49	15 A
Headlamp LO (RH)	IPDM E/R	#50	15 A
Daytime running light	FUSE AND FUSIBLE LINK BLOCK	#33	10 A
Front fog lamp	IPDM E/R	#65	15 A
Parking lamp	IPDM E/R	#46	10 A
Tail lamp License plate lamp Each illumination	IPDM E/R	#45	10 A
Stop lamp	FUSE BLOCK (J/B)	#11	10 A
Back-up lamp	IPDM E/R	#60	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

Component Function Check

1. CHECK HEADLAMP (HI) OPERATION

■IPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- Check that the headlamp switches to the high beam.

PCONSULT-III ACTIVE TEST

- Select "EXTERNAL LAMP" of IPDM E/R active test item.
- 2. With operating the test items, check that the headlamp (HI) is turned ON.

Ηi : Headlamp (HI) ON Off : Headlamp (HI) OFF

NOTE:

ON/OFF is repeated 1 second each.

Is the headlamp (HI) turned ON?

YES >> Headlamp (HI) circuit is normal.

NO >> Refer to EXL-161, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- Turn the ignition switch OFF.
- Disconnect the headlamp high connector.
- Turn the ignition switch ON.
- 4. Select "EXTERNAL LAMP" 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				Condition	
(+)		(-)	Condition	Voltage	
	IPDM E/R			External	(Approx.)
Coi	nnector	Terminal		lamp	
RH	E12	22	Ground	Hi	Battery voltage
LH		21		Off	0 V

Is the measurement value normal?

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

2.CHECK HEADLAMP (HI) OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect IPDM E/R connector. 2.
- Check continuity between the IPDM E/R harness connector and the headlamp high harness connector.

Continuity	np high	Headlamp high		IPDM E/R	
Continuity	Terminal	Connector	Terminal	nector	Conr
Existed	1	E43	22	F12	RH
LXISIEU	1	E24	21	LIZ	LH

Does continuity exist?

>> • GO TO 5. (Without daytime running light system)

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[HALOGEN TYPE]

• GO TO 6. (With daytime running light system)

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 (LH)	IPDM E/R	#44	10 A
Headlamp HI (RH)	IPDM E/R	#43	10 A

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4. CHECK HEADLAMP HIGH (HI) SHORT CIRCUIT

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

IPDM E/R			Continuity	
Conr	onnector Terminal		Ground	Continuity
RH	E12	22	Glound	Not existed
LH	<u> </u>	21		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 (HI) GROUND OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect the headlamp high connector.
- 3. Check continuity between the headlamp high harness connector and ground.

Headlamp high				Continuity
Conr	nector	Terminal	Ground	Continuity
RH	E43	2	Giodila	Existed
LH	E24	2		LXISIGU

Does continuity exist?

YES >> Replace the headlamp (HI) bulb. (Bulb socket is abnormally.)

NO >> Repair the harnesses or connectors.

6. CHECK HEADLAMP (HI) GROUND OPEN CIRCUIT (LH SIDE)

- 1. Turn the ignition switch OFF.
- 2. Disconnect the headlamp high connector.
- Check continuity between the headlamp high harness connector and ground.

Headlamp high				Continuity
Connector		Terminal	Ground	Existed
LH	LH E24 2			LAISIGU

Does continuity exist?

YES >> GO TO 7.

NO >> Repair the harnesses or connectors.

.CHECK CONTINUITY BETWEEN HEADLAMP HIGH (RH) AND DAYTIME RUNNING LIGHT RELAY

1. Remove daytime running light relay.

HEADLAMP (HI) CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

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2. Check continuity between headlamp high RH harness connector and daytime running light relay harness connector.

Headlamp high		Daytime runnii	Continuity		
Conr	nector	Terminal	Connector	Terminal	Existed
RH	E43	2	E65	3	LXISted

Does continuity exist?

YES >> GO TO 8.

NO >> Repair the harness or connector.

8.CHECK THE DAYTIME RUNNING LIGHT RELAY GROUND OPEN CIRCUIT

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

Daytime running	light relay		Continuity
Connector	Terminal	Ground	Existed
E65	4		LXISTEG

Does continuity exist?

YES >> GO TO 9.

NO >> Repair the harness or connector.

9. CHECK THE DAYTIME RUNNING LIGHT RELAY

Check daytime running light relay. Refer to EXL-169, "Component Inspection".

Is the daytime running light relay normal?

YES >> Replace the headlamp (HI) bulb. (Bulb socket is abnormally.)

NO >> Replace the daytime running light relay.

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[HALOGEN TYPE]

HEADLAMP (LO) CIRCUIT

Component Function Check

INFOID:0000000001720641

1. CHECK HEADLAMP (LO) OPERATION

RIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- Check that the headlamp is turned ON.

(P)CONSULT-III ACTIVE TEST

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

Lo : Headlamp (LO) ON
Off : Headlamp (LO) OFF

Is the headlamp (LO) turned ON?

YES >> Headlamp (LO) is normal.

NO >> Refer to EXL-164, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001720642

1. CHECK HEADLAMP (LO) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- 1. Turn the ignition switch OFF.
- 2. Disconnect the headlamp low connector.
- 3. Turn the ignition switch ON.
- 4. Select "EXTERNAL LAMP" 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		
	(+)		(-)	1631 116111	Voltage
	IPDN	Л E/R		External	(Approx.)
Conr	nector	Terminal		lamp	
RH	E12	20	Ground	LO	Battery volt- age
LH		18		OFF	0 V

Is the measurement value normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK HEADLAMP (LO) OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- Disconnect IPDM E/R connector.
- Check continuity between the IPDM E/R harness connector and the headlamp low harness connector.

	IPDN	/I E/R	Headlamp low		Continuity
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	E12	20	E45	1	Existed
LH	LIZ	18	E26	1	LXISIEU

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

HEADLAMP (LO) CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

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$\overline{3}$.CHECK HEADLAMP (LO) FUSE

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

Unit	Lotion	Fuse No.	Capacity
Headlamp LO (LH)	IPDM E/R	#49	15 A
Headlamp LO (RH)	IPDM E/R	#50	15 A

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4.CHECK HEADLAMP (LO) SHORT CIRCUIT

- 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	E12	20	Glound	Not existed
LH	LIZ	18		Not existed

Does continuity exist?

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

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

5.CHECK HEADLAMP (LO) GROUND OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect the headlamp low connector. 2.
- Check continuity between the headlamp low harness connector and ground.

Headlamp low				Continuity
Coni	nector	Terminal	Ground	Continuity
RH	E45	2	Glound	Existed
LH	E26	2		LAISIGU

Does continuity exist?

YES >> Replace the headlamp (LO) bulb. (Bulb socket is abnormally.)

NO >> Repair the harnesses or connectors.

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FRONT FOG LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

INFOID:0000000003050001

INFOID:0000000003050002

FRONT FOG LAMP CIRCUIT

Component Function Check

1. CHECK FRONT FOG LAMP OPERATION

®IPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- Check that the front fog lamp is turned ON.

(P)CONSULT-III ACTIVE TEST

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

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

Is the front fog lamp turned ON?

YES >> Front fog lamp circuit is normal.

NO >> Refer to EXL-166, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK FRONT FOG LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Front fog lamp	IPDM E/R	#65	15 A

Is the fuse fusing?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK FRONT FOG LAMP SHORT CIRCUIT

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

IPDM E/R				Continuity
Connector		Terminal	Crawad	Continuity
RH	E12	17	Ground	Not existed
LH	EIZ	16		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.)

3.CHECK FRONT FOG LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 4.

NO >> Replace the bulb.

4.CHECK FRONT FOG LAMP OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- 1. Disconnect the front fog lamp connector.
- Turn the ignition switch ON.
- 3. Select "EXTERNAL LAMP" of IPDM E/R active test item.

FRONT FOG LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

4. 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.)
Coi	nnector	Terminal		LAMP	
RH	E12	17	Ground	Fog	Battery voltage
LH		16		Off	0 V

Is the measurement value normal?

YES >> GO TO 5.

NO >> Replace IPDM E/R.

5. CHECK FRONT FOG 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 fog lamp harness connector.

Continuity	Front fog lamp		/R	IPDM E	
Continuity	Terminal	Connector	Terminal	nector	Conr
Existed	2	E48	17	E12	RH
LXISIGU	2	E30	16	LIZ	LH

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

O.CHECK FRONT FOG LAMP GROUND CIRCUIT OPEN CIRCUIT

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

	Front fog la	amp		Continuity
Conr	nector	Terminal	Ground	Continuity
RH	E48	1	Giodila	Existed
LH	E30	1		Existed

Does continuity exist?

YES >> Replace the front fog lamp.

NO >> Repair the harnesses or connectors.

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DAYTIME RUNNING LIGHT RELAY CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

DAYTIME RUNNING LIGHT RELAY CIRCUIT

Component Function Check

PONENT FUNCTION Check

1.CHECK DAYTIME RUNNING LIGHT OPERATION

©CONSULT-III ACTIVE TEST

- I. Select "EXTERNAL LAMP" of IPDM E/R active test item.
- 2. With operating the test item, check that daytime running light operation.

TAIL : Daytime running light ON
Off : Daytime running light OFF

Is the daytime running light turned ON?

YES >> Daytime running light relay circuit is normal. NO >> Refer to EXL-168, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001716405

1. CHECK DAYTIME RUNNING LIGHT RELAY FUSE

Check that the following fuse is not fusing.

Unit	Location	Fuse No.	Capacity
Daytime running light relay	Fuse and fusible link block	#33	10A

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

(+)	(-)	Voltage (Ap-	
Daytime runr	ning light relay	Ground	prox.)	
Connector	Terminal			
E65	1	Glound	Pattony voltage	
E03	5		Battery voltage	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harnesses or connectors.

3.CHECK DAYTIME RUNNING LIGHT RELAY

Check daytime running light relay. Refer to EXL-169, "Component Inspection".

Is the daytime running light relay normal?

YES >> GO TO 4.

NO >> Replace daytime running light relay.

4. CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL OUTPUT

®CONSULT-III ACTIVE TEST

- 1. Turn the ignition switch OFF.
- Install daytime running light relay.
- 3. Turn the ignition switch ON.
- 4. Select "DAYTIME RUNNING LIGHT" of BCM (HEAD LAMP) active test item.
- 5. With operating the test item, check voltage between IPDM E/R harness connector and ground.

DAYTIME RUNNING LIGHT RELAY CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

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	Terminals	Test item		
(+)		(-)	iest item	Voltage (Ap-
IPDM E/R			DAYTIME	prox.)
Connector	Terminal		RUNNING LIGHT	
		Ground	On	0 V
E12	15		Off	Battery volt- age

Is the measurement value normal?

YES >> Check daytime running light relay circuit. Refer to EXL-168, "Diagnosis Procedure".

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

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

IPDM E/R		Daytime running light relay		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E12	15	E65	2	Existed

Does continuity exist?

>> GO TO 6. YES

NO >> Repair the harnesses or connectors.

$oldsymbol{\circ}$.CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL SHORT CIRCUIT

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

IPDN	M E/R		Continuity
Connector	Terminal	Ground	Continuity
E12	15		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace IPDM E/R.

Component Inspection

1. CHECK DAYTIME RUNNING LIGHT RELAY

- Turn the ignition switch OFF.
- Remove daytime running light relay. 2.
- 3. Apply battery voltage to daytime running light relay between terminals 1 and 2.
- Check continuity of daytime running light relay.

Daytime running light relay		Condition	Continuity
Terr	Voltage	Continuity	
5		Apply	Existed
	3	Not Apply	Not existed
4	3	Apply	Not existed
4		Not Apply	Existed

Does continuity exist?

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DAYTIME RUNNING LIGHT RELAY CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

>> Daytime running light relay is normal. >> Replace daytime running light relay. YES

NO

PARKING LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

PARKING LAMP CIRCUIT

Component Function Check

INFOID:0000000003050006

${f 1}$.CHECK PARKING LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

- Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- Check that the parking lamp is turned ON.

PCONSULT-III ACTIVE TEST

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

TAIL : Parking lamp ON Off : Parking lamp OFF

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Is the parking lamp turned ON?

YES >> Parking lamp circuit is normal.

>> Refer to EXL-171, "Diagnosis Procedure". NO

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INFOID:0000000003050007

Diagnosis Procedure

1. CHECK PARKING LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Parking lamp	IPDM E/R	#46	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 parking lamp connector.
- Check continuity between the IPDM E/R harness connector and the ground.

IPDM E/R			Continuity	
Connector		Terminal	Ground	Continuity
RH	E1/	39	Giouna	Not existed
LH	E14	38		NOT EXISTED

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Does continuity exist?

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

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

${f 3.}$ CHECK PARKING LAMP BULB

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

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

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PARKING LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

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

Terminals				Test item		
(+)		(-)	iest itemi	Voltage		
IPDM E/R			EXTERNAL	(Approx.)		
Coi	nnector	Terminal		LAMP		
RH	E14	39	Ground	TAIL	Battery voltage	
LH		38		Off	0 V	

Is the measurement value normal?

YES >> GO TO 5.

NO >> Replace IPDM E/R.

5. CHECK PARKING LAMP OPEN CIRCUIT

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

IPDM E/R		Parking	Continuity		
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	E14	39	E46	1	Existed
LH	L14	38	E27	1	LAISIEU

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

O.CHECK PARKING LAMP GROUND OPEN CIRCUIT

Check continuity between the parking lamp harness connector and the ground.

Parking lamp				Continuity
Connector Terr		Terminal	Ground	Continuity
RH	E46	2	Giodila	Existed
LH	E27	2		Existed

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

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INFOID:0000000003050012

TURN SIGNAL LAMP CIRCUIT

Description INFOID:0000000003050010

BCM performs the high flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is

NOTE:

The turn signal lamp blinks at normal speed when using the hazard warning lamp.

Component Function Check

INFOID:0000000003050011

1. CHECK TURN SIGNAL LAMP

PCONSULT-III ACTIVE TEST

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

LH : Turn signal lamps (LH) ON RH : Turn signal lamps (RH) ON : Turn signal lamps OFF

Is the turn signal lamp turned ON?

YES >> Turn signal lamp circuit is normal.

>> Refer to EXL-173, "Diagnosis Procedure". NO

Diagnosis Procedure

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

- 1. Turn the ignition switch OFF.
- 2. Disconnect the front turn signal lamp connector or the rear combination lamp connector.
- Turn the ignition switch ON.
- With operating the turn signal switch, check the voltage between the BCM harness connector and the ground.

	Terminals			Condition		
(+)		(-)	Voltage (Approx.)			
	BCM			Turn signal	voltage (Approx.)	
Co	Connector Terminal switch		switch			
RH		61				
LH	M67	60	Ground	LH or RH	(V) 15 10 1	
				OFF	0 V	

Is the measurement value normal?

YES >> GO TO 3.

>> Replace BCM. Refer to BCS-67, "Exploded View". NO

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TURN SIGNAL LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

3.check turn signal lamp open circuit

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

Front turn signal lamp

ВСМ		Front turn	Continuity		
Co	nnector	Terminal	Connector	Terminal	Continuity
RH	M67	61	E46	3	Existed
LH	IVIO7	60	E27	3	Existed

Rear turn signal lamp

ВСМ		Rear combination lamp		Continuity		
Co	nnector	Terminal	Connector Terminal		Continuity	
RH	M67	61	B59	2	Existed	
LH	IVIO7	60	B80	3	Existed	

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector and the ground.

	BCM		Continuity		
Connector		Terminal	Ground	Continuity	
RH	M67	61	Giodila	Not existed	
LH	IVIO7	60		Not existed	

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 5.

5. CHECK TURN SIGNAL LAMP GROUND OPEN CIRCUIT

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

Front turn signal lamp

Front turn signal lamp				Continuity
	Connector	Terminal	Ground	Continuity
RH	E46	2	Giodila	Existed
LH	E27	2		Existed

Rear turn signal lamp

Rear combination lamp				Continuity
	Connector Termina		Ground	Continuity
RH	B59	4	Giodila	Existed
LH	B80	4		Existed

Does continuity exist?

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

NO >> Repair the harnesses or connectors.

[HALOGEN TYPE]

HAZARD SWITCH

Component Function Check

INFOID:0000000003050013

1. CHECK HAZARD SWITCH SIGNAL BY CONSULT-III

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©CONSULT-III DATA MONITOR

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

Monitor item	Con	Monitor status	
HAZARD SW	Hazard switch	ON	On
	Tiazaid Switch	OFF	Off

Is the item status normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to EXL-175, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003050014

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 (Approx.)
ВС	СМ		Hazard switch	voltage (Approx.)
Connector	Terminal		Tiazara Switch	
			ON	0 V
M65	29	Ground	OFF	(V) 15 10 5 0 10ms

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Is the measurement value normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".

NO >> GO TO 2.

2.CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

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

Hazard	d switch	В	СМ	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M45	2	M65	29	Existed

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3.CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

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

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Hazard	d switch		Continuity
Connector	Terminal	Ground	Continuity
M45	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.

Hazaro	Hazard switch		Continuity
Connector	Terminal	Ground	Continuity
M45	1		Existed

Does continuity exist?

YES >> Replace the hazard switch.

NO >> Repair the harnesses or connectors.

INFOID:0000000003050015

INFOID:0000000003050016

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TAIL LAMP CIRCUIT

Component Function Check

NOTE:

Check the license plate lamp circuit if the tail lamp and the license plate lamp are not turned ON. Refer to <u>EXL-179</u>, "Component Function Check".

1. CHECK TAIL LAMP OPERATION

®IPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- 2. Check that the tail lamp is turned ON.

(P)CONSULT-III ACTIVE TEST

- 1. Select "EXTERNAL LAMP" 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-177, "Diagnosis Procedure".

Diagnosis Procedure

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	IPDM E/R	#45	10 A

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK TAIL LAMP OUTPUT VOLTAGE

©CONSULT-III ACTIVE TEST

- 1. Disconnect the rear combination lamp connector.
- 2. Turn the ignition switch ON.
- Select "EXTERNAL LAMP" 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	
(+)		(-)	163t Itelli	Voltage
IPDN	1 E/R		EXTERNAL	(Approx.)
Connector	Terminal		LAMP	
E14	37	Ground	TAIL	Battery volt- age
			Off	0 V

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace IPDM E/R.

3. CHECK TAIL LAMP OPEN CIRCUIT

Turn the ignition switch OFF.

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TAIL LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

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

	IPDM E/R		IPDM E/R Rear combination lamp		Continuity
C	Connector	Terminal	Connector	Terminal	Continuity
RH	F14	37	B59	1	Existed
LH	L14	37	B80	1	LAISIEU

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TAIL LAMP GROUND OPEN CIRCUIT

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

Rear combination lamp				Continuity
	Connector	Terminal	Ground	Continuity
RH	B59	4	Ground	Existed
LH	B80	4		Existed

Does continuity exist?

YES >> Replace the rear combination lamp.

NO >> Repair the harnesses or connectors.

LICENSE PLATE LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

LICENSE PLATE LAMP CIRCUIT

Component Function Check

INFOID:0000000003050019

1. CHECK LICENSE PLATE LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 1. Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- Check that the license plate lamp is turned ON.

PCONSULT-III ACTIVE TEST

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

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

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Is the license plate lamp turned ON?

YES >> License plate lamp circuit is normal.

NO >> Refer to EXL-179, "Diagnosis Procedure".

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Diagnosis Procedure

INFOID:0000000003050020

1. CHECK LICENSE PLATE LAMP BULB

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Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 2.

NO >> Replace the bulb.

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2.CHECK LICENSE PLATE LAMP OPEN CIRCUIT

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

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Continuity	License plate lamp		IPDM E/R		
Continuity	Terminal	Connector	Terminal	onnector	С
Existed	1	D196	37	F14	RH
LAISIGU	1	D195	37	L14	LH

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Does continuity exist?

YES >> GO TO 3.

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NO >> Repair the harnesses or connectors.

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

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

Ν

	License plate	amp		Continuity
	Connector	Terminal	Ground	Continuity
RH	D196	2	Ground	Existed
LH	D195	2		LXISIEU

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Does continuity exist?

YES >> Replace the license plate lamp.

NO >> Repair the harnesses or connectors.

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HEADLAMP SYSTEM

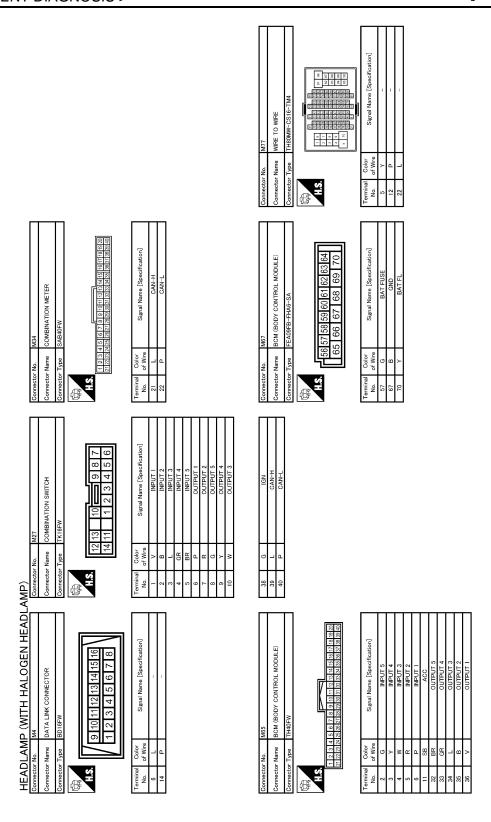
HEADLAMP (WITH HALOGEN HEADLAMP)

Wiring Diagram - HEADLAMP -

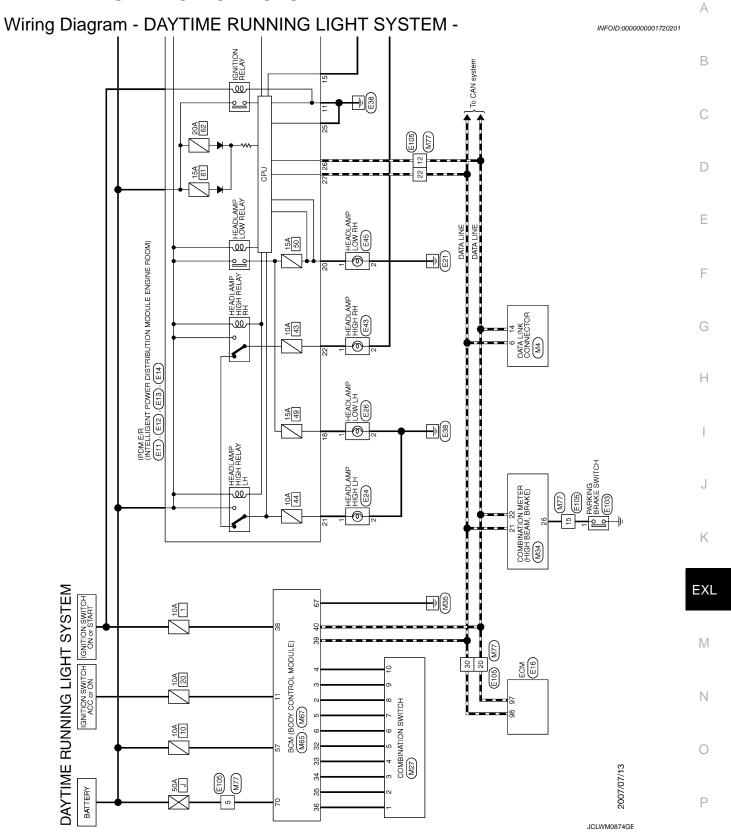
RELAY RELAY 20A 62 E105 M77 CPU IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E11) .(E12) .(E13) HEADLAMP HEADLAMP LOW RH (E45) 15A 50 HEADLAMP HIGH RELAY RH HEADLAMP HIGH RH (E43) عف 43 43 6 14 DATA LINK CONNECTOR (M4) HEADLAMP LOW LH E26 15A 49 HEADLAMP HIGH RELAY LH 44 44 21 22 COMBINATION METER (HIGH BEAM) (M34) W35) IGNITION SWITCH ON OF START ON OF START 40 − BCM (BODY CONTROL MODULE) (MES) (M67) 10A COMBINATION SWITCH 10A E105 2007/07/13 BATTERY

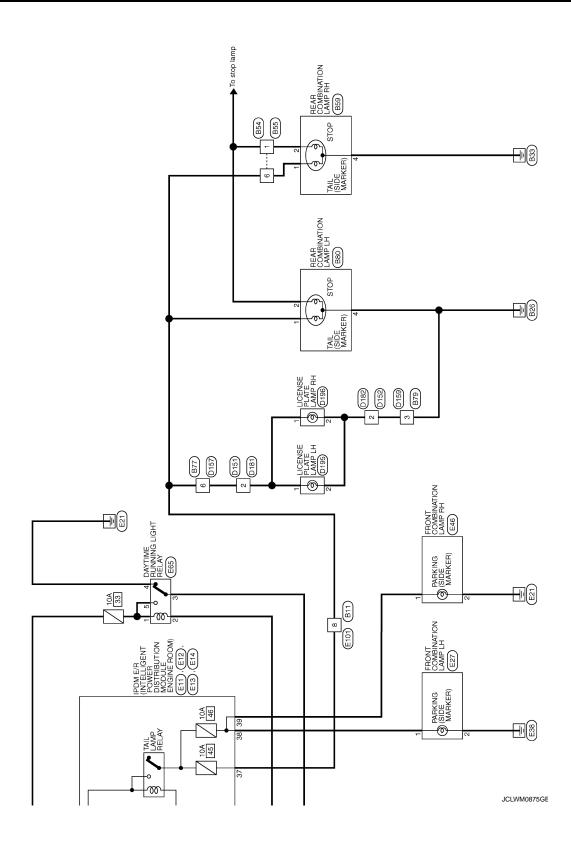
	Signal Name [Specification]	WRE CSIG-TM4 CSIG-TM4 Signal Name [Specificator]		АВ
Corrector No. E24 Corrector Name HEADLAMP HIGH LH Corrector Type U02FB	Color Color Signal Nan Na Color Signal Nan Color Color	ector No. E 105 ector Name WRE TO THBOFW In I Color O W Wre O W Wre	L D	C
Comm		Conne Conne Conne Conne No No S	22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	D
INE ROOM)	cation	oation]		Е
E13 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) THI 2PW-NH 28 27 26 25 4 23 34 33 32 31 30 29	Signal Name [Specification]	E45 HEADLAMP LOW RH FHZOZFB Signal Name [Specification]		F
П.П	Color of Wire	olor Mire	<u> </u>	G
Connector No. Connector Type	Terminal No. c 25 26 26 27	Connector No. Connector Type Connector Type H.S. H.S. Terminal Color No. of Wirth	70	Н
(W)			[win]	11
IF IZ POWER (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) NSOBFBR-CS 17	Signal Name (Specification)	AP HIGH RH	-[Without daytime running light system]	I
E12 IPDM E/R (INTELLI DISTRIBUTION MO NSOBFBR-CS 17 22 21 20	Signal Nat	E43 UOZFB Signal Name	-[Without daytin	J
9 9	Color of Wire SB SB G G G G G G G G G G G G G G G G G		<u> </u>	K
Connector No. Connector Name Connector Type H.S.	Terminal No. 18 20 21 21 22 22	Connector No. Connector Type Cornector Type H.S. Terminal Colon No of Wir	2	
				EXL
P (WITH HALOGEN HEAD BEIL POWER PRINCHELIGENT POWER POST TREATHOR MODULE ENGINE ROOM) MORFIB-LC 11 10 9 14 13 12	Signal Name [Specification]	AP LOW LH	1	M
TH HALLIGE (INTELLIGE LC. LC. 11 10 9 14 13 12	Signal Name	E26 HEADLAMP LOW LH FHZ0ZFB Sigral Name		
MMP (WIT)	ا أنو		_	Ν
HEADLAMP (WITH HALOGEN HEAD) Connector No. E11 Connector Name PDM E/R (WITELLIGENT POWER DEMONSTOR NAME E WITELLIGENT POWER DEMONSTOR NAME E WITELLIGENT POWER DEMONSTOR NAME E WITELLIGENT POWER DEMONSTOR NAME E NAME ROOM) TO THE STATE OF	Calor Calo	Connector No. Connector Type Connector Type Liss Connector Type Co	2 2	0
	Ľ II	Con	JCLWM	0872GE
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Revision: 2008 January EXL-181 2008 Rogue



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Corrector No. 859 Corrector Name REAR COMBINATION LAMP RH	Corrector Name WIRE TO WIRE Connector Type NSOBFBR-CS Connector Type Signal Name [Specification] Terminal Color Signal Name [Specification] 2 R	A B C
Tem N N N N N N N N N N N N N N N N N N N	Common Term Term 2	D
WIPE -CS 10 9 8 7 6 Signal Name [Specification]	NSOMMW-CS Signal Name (Speedfeaton)	E F
No. 855 Name WIRE TO WIRE Type NS12FW-CS 5 4	B	G
Connector Na. Connector Type Connector Type H.S. No. Terminal No. of Wir	Connector No. Connector Name Connector Type H.S. No. Terminal No. Olymer 1 1 2 8 4 B B A B B A B B B B B B B B B B B B B	Н
NST2MW-CS NST2MW-CS 1 2 3	MOHAWY-LC MOHAWY-LC 3 4 Signal Name [Specification]	J
Connector No.	Connector No. 679 Connector Type WIRE Connector Type MO44 Terminal Color No. of Wire 3 B	К
(STEM		EXL
DAYTIME RUNNING LIGHT SYSTEM Connector Name WIRE TO WIRE Connector Type THROMY-CS16-TM4 LAS THROMY-CS16-TM4 LAS THROMY-CS16-TM4 Terminal Color Signal Name [Specification] 8 R	NSTOMW-CS 1 2	M
TIME RUN No. Bit I Type Type Color of Wire R		N
DAYTIME Connector Name Connector Type Connector Type H.S. H.S. Terminal Color No. of Wir	Connector No. Connector Type Connector Type H.S. Terminal Color B. G. W.	0
		JCLWM0876GE

Revision: 2008 January EXL-185 2008 Rogue

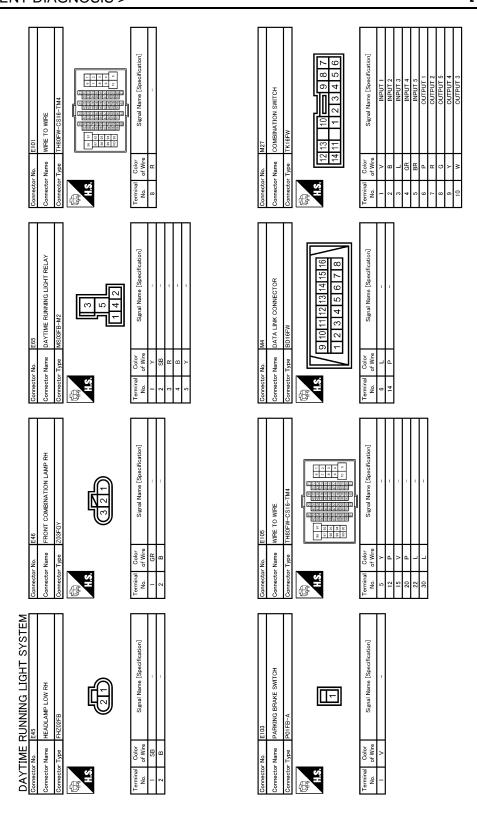
Connector No. D181	Connector Name WIRE TO WIRE Commector Type NSCBMBR-CS	HS. 12 - 3 4 5 6 7 8	Terminal Golor Signal Name [Specification] No. of Wire Signal Name [Specification] 2 R -	RH Connector Name IPDM E-/R (INTELLIGENT POWER DOWNER DOWNER DISTRIBUTION MODULE ENGINE ROOM) Connector Type MOSFB-LC MOSFB-LC 11 10 9 14 13 12	Specification] Terminal Color Signal Name [Specification]
Connector No. D159	Connector Name WIRE TO WIRE Connector Type M04FW-LC	HS.	Terminal Golor Signal Name [Specification] No of Wire Signal Name [Specification] 3 B B	Connector No. D196 Connector Name LICENSE PLATE LAMP RH Connector Type TR02FBR LLS	Terminal Golor Signal Name [Specification] No. of Wire
EM	Connector Name WIRE TO WIRE Connector Type NSI0FW-CS	H.S. 4 3 1 2 1 10 9 8 7 6 5	Terminal Color Signal Name [Specification] No. of Wire 6 R	Connector No. D195 Connector Name LICENSE PLATE LAMP LH Connector Type TK02FBR	Terminal Golor Signal Name [Specification]
DAYTIME RUNNING LIGHT SYSTEM Connector No. 10152	Connector Name WIRE TO WIRE Connector Type M02FW-GY-LC	H.S.	Terminal Color Signal Name [Specification] No of Wire 2 B -	Connector No. D182 Connector Name WIRE TO WIRE Connector Type MOZHWY-GY-LC	Terminal Color Signal Name [Specification]

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[HALOGEN TYPE]

Cornector No. E16 Cornector Name ECM Cornector Name ECM Cornector Type MAA24FB-MEA8-RH	Connector Name HEADLAMP HIGH RH Connector Type U0ZFB H.S. H.S. Terminal Color No. of Wire Signal Name [Specification] 1 LG 2 R -{With daytine running light system]}	A B C
Connector No. E14 Connector No. E14 Connector Name Distribution MODULE ENGINE ROOM) Connector Type NS12FBR-CS 39 38	Connector No. E27 Connector Name FRONT COMBINATION LAMP LH Connector Type ZUSFGY LLS Terniral Color Signal Name [Specification] 1 R 2 B	E F G
Connector No. E13 Connector No. E13 Connector Name Distribution Module Engine Room) Connector Type THIZFW-NH	Connector No. E28 Connector Name HEADLAMP LOW LH Connector Type FHZ02FB H.S. Tomestor Type FHZ02FB Tomestor Type FHZ02FB Signal Name [Specification] 1 L 2 B	J K
DAYTIME RUNNING LIGHT SYSTEM	Connector No. E24	M N O JCLWM0878GE

Revision: 2008 January EXL-187 2008 Rogue



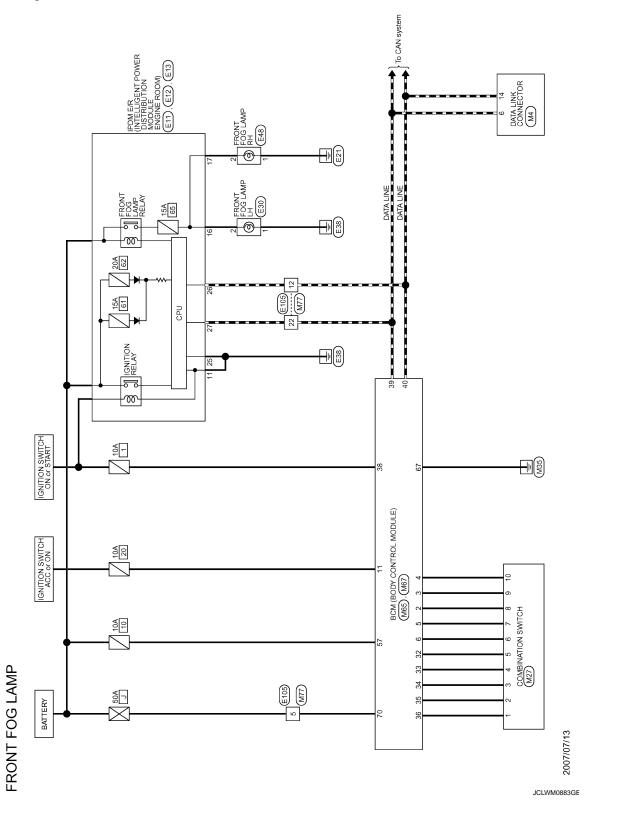
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-SA -SA -01 62 63 64 68 69 70	Signal Name (Specification) BAT FUSE GND BAT FL			АВ
Connector No. M67 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEA09FB-FHA6-SA LSA LSA LSA LSA LSA LSA LSA	Color Signal P			C
	<u> - </u>			Е
IGN CAN-H CAN-L				F
88 88 89 89 B				G H
L MODULE)	Neur Specification			I
M65 M65 M65 M65 M65 M60 M65 M60 M60				J
Connector No. Connector Name Connector Type H.S. H.S. E. 12. 8	Color Color			K
Commetter No. M34 Commetter No. M34 Commetter No. M34 Commetter No. Commetter	Signal Name [Specification] CAN-H CAN-L PARKING BRAKE SW	MV-CS16-TM4 MV-CS16-TM4 MV-CS16-TM4 Signal Name [Specification]		M M
IME RUNNING LIG	Oolor Signa Villes	MATA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ν
DAYTIME Connector No. Connector Name Connector Type ILS. ILS.	Terminal Co Too Co Co Co Co Co C	Connector No.	ICHWIMMORACE	0
			JCLWM0880GE	Р

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FRONT FOG LAMP SYSTEM

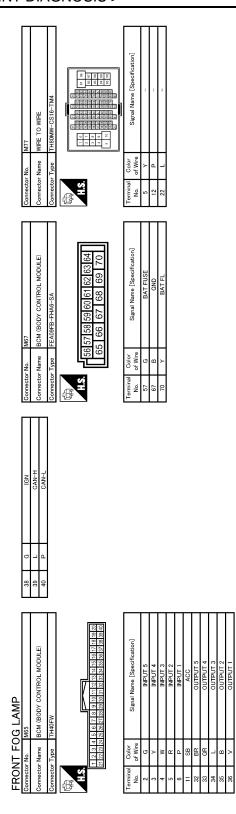
Wiring Diagram - FRONT FOG LAMP -



FRONT FOG LAMP SYSTEM

poffcetton)	6 6 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	А
FRONT FOG LAMP LH FHZ0ZFB Signal Name [Specification]	MAZ COMBINATION SWITCH TKI 6FW	В
Connector No. E Connector Type F Connector Type F No. of Wire 1 B 2 Y	Connector No. M27	D
POWER ROOM) 23 29 29 peoffcation]	15 [16] Pacification]	Е
E13 THI ZPW-NH THI ZPW-NH 28 27 26 25 24 23 34 33 32 31 30 29 Signal Name [Specification]	M4 Bata Link Connector Bate A	F
Connector No. E Connector Type T Terminal Color	Connector No. M. Connector Name Ortocometor Name Ortocometor Name Ortocometor Type BIT Ortocometor Type BIT Ortocometor Type BIT Ortocometor No. of Wire of the P. Color of Wire of the P. Connector Name Ortocometor Name Ortocome	G H
OWER NOOM)	poce(fication)	1
PIDM E. PR (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) NSGBFBR-CS 17 16 15 22 21 20 19 18 Signal Name [Specification]	WRE TO WRE THEOFW-CS16-TM4 WE WAS TO THE TO WRE WE WAS TO THE TO	J
Connector No. E12 Connector Name (ptp) Connector Type NSI Connector Ty	Connector No. Ell Connector Name Will Connector Type H.S. 12 P P P 22 L 22 L 22 L 23	К
WER SOM) GINE ROOM) Feation]	[foation]	EXL
IEII PIDM E.P. (INTELLIGENT POWER DISTRIBUTION MODILE ENGINE ROOM) MOGFB-LC 11 10 9 14 13 12 14 13 12 15 12 16 13 12 17 10 9 18 10 10 18 10 10 18 10 10 19 10 10 10 10 10	FRONT FOG LAMP RH FHZ02FB Signal Name [Specification]	M
FRONT FOG LAMP Connector Name PPM E.R (NATI Connector Type MoleFB-LC Connector Type MoleFB-LC Terminal Color No. of Wire Signal	Connector No. E48 Connector Name FRONT F Connector Type FHZOZEB No. of Wire 1 of Wire 2 W B	0
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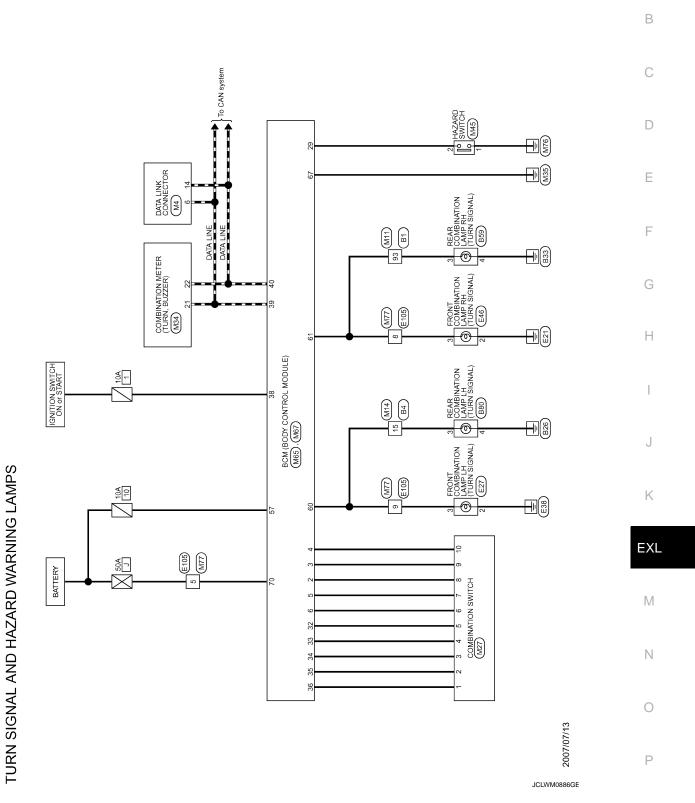
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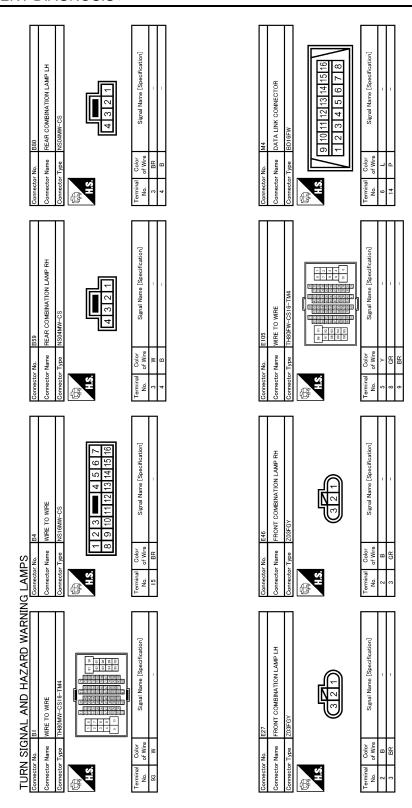
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram - TURN AND HAZARD WARNING LAMPS -



TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM



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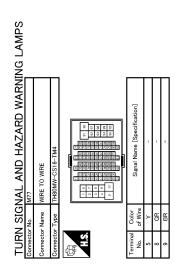
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

Connector No. M34	Terminal Color Signal Name [Specification]	Connector No. M67 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEA09FB-FHA6-SA H.S 56 57 58 59 60 61 62 63 64	Color Signal Name [Specification] Color Signal Name [Specification] Signal Name [Speci		A B C
Connector No. M27 Connector Name COMBINATION SWITCH Connector Type TKI 16FW TIZ 13 10 14 11 1 14 11 1 14 11 1	Terminal Color No. Of Wire Of Wire	38 G IGN 39 L CANH-H 40 P CANH-L			E F G
C LAMPS Connector No. M14 Connector No. M14 Connector Name WIRE Connector Type NS16FW-CS M18	Terminal Color No. of Wire Signal Name [Specification]	Connector No. M65 Connector Type TH40FW Connector Type TH40FW 1.2 o 4 5 6 7 8 9 10 11 12 14 15 6 7 8 9 20 11 12 13 14 15 6 7 8 9 10 11 12 13 14 15 6 7 8 9 10 11 12 13 14 15 6 7 8 9 10 11 12 13 14 15 6 7 8 9 10 11 12 13 14 15 6 7 18 8 10 13 13 13 14 15 6 7 18 8 10 13 13 13 14 15 6 7 18 19 10 13 13 14 15 6 7 18 19 10 13 13 14 15 6 7 18 19 10 13 13 14 15 6 7 18 19 10 13 13 14 15 6 7 18 19 10 13 13 14 15 6 7 18 19 10 13 13 14 15 6 7 18 19 10 13 14 15 6 7 18 19 10 13 14 15 6 7 18 19 10 13 14 15 6 7 18 19 10 13 14 15 6 7 18 19 10 13 14 15 6 7 18 19 10 13 14 15 6 7 18 19 10 13 14 15 6 7 18 19 10 13 14 15 6 7 18 19 10 13 14 15 6 7 18 18 18 18 18 18 18 18 18 18 18 18 18	Terminal Color No. of Wiles Signal Name [Specification] 2 G INPUT 5		J K
TURN SIGNAL AND HAZARD WARNING LAMPS Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Type I TH80PTV-CS16-TM4 Connector Type Connector Type I TH8	Terminal Color No. of Wire Signal Name [Specification] 93 GR	Connector No. M45 Connector Name HAZARD SWITCH Connector Type TK04FW H.S.	Terminal Golor Signal Name [Specification] 1 B	JCLWM0888GE	M N O

Revision: 2008 January EXL-195 2008 Rogue



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[HALOGEN TYPE] < COMPONENT DIAGNOSIS > PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM Α Wiring Diagram - PARKING, LICENSE PLATE AND TAIL LAMPS -INFOID:0000000001720234 В PARKING (SIDE MARKER) C <u></u> D Е PARKING (SIDE MARKER) IPDM E/R (INTELLIGENT POWER DOWER MODULE ENGINE ROOM) (E11).(E13).(E14) F <u></u> 10A TAIL LAMP RELAY 21 22 COMBINATION METER (TAIL LAMP) (M34) 10A 46 Н ത 20A 62

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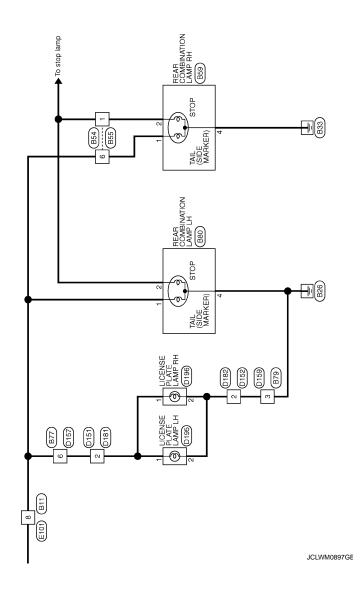
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< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

CS 3 4 5 8 9 10 11 12 Signal Name (Specification)	WIRE C 12 3 4 Signal Name [Specification]	АВ
MINE TO NSI 2 MW 1	B79 WIRE TO M04MW-I	С
Connector No. Connector Type Connector Type H.S. H.S. Terminal Color No. 0 Wife 1 Y	Connector No. Connector Name Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector No. Conn	D
RIVER SIDE)	10 10 poerfication	Е
FRONT DOOR SWITCH (DRIVER SIDE) A03FW Signal Name [Specification]	70 WRE MW-CS 2	F
ector No. ector Name ector Type color of Wire of Wire of Wire	ector No. ector No. initial Color or of Wire	G
Tem Community National Nationa	Ocomo N N N N N N N N N N N N N N N N N N N	Н
WRE CSIG-TM4 CSIG-TM4 CSIG-TM4 Signal Name (Specification)	MBINATION LAMP RH CS 1321 Signal Name [Specification]	I
WWRE TO THE SOUND	B59 REAR OG NSO4MW	J
Connector Name Connector Name Connector Type Terminal Color No. of Wire 8 R	Connector No. Connector Name Connector Type H.S. H.S. 1 R R B B B B	K
TO TAIL		EXL
PARKING, LICENSE PLATE AND TAI	UNIPE CS 10 9 8 7 6 10 9 8 7 6 10 9 8 7 6	M
TING, LICENSE 183 (1946) 194 (1946) 195 (194	855 WIRE TO IN NS12874- 12 [1]	N
PARKING Connector No. Connector Type	Connector No. Connector Name Connector Type H.S. H.S. Terminal Color No. of Wint 1 Y	0
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Revision: 2008 January EXL-199 2008 Rogue

[HALOGEN TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS Connector No. B80 Connector No. PRER COMBINATION LAMP LH Connector Name PRER COMBINATION LAMP LH	lo. ame	Connector No. D152 Connector Name WIRE TO WIRE	Connector No. D157 Connector Name WIRE TO WIRE
NSSAAWY-CS	Connector Type NSOBFBR-CS	Connector Type MOZEW-GY-LC	NS10FW-CS NS10FW-CS NS 10FW-CS NS 10
Signal Name [Specification]	Terminal Color Signal Name [Specification] 2 R	Terminal Color No. of Wire 2 B .	Terminal Color No. of Wire Signal Name [Specification]
DIS9 WIRE TO WIRE MO4FW-LC 2 1 4 3	Connector Name WIRE TO WIRE Connector Type NSJ08MBR-CS M48 1 2	Connector No. D182 Connector Name WIRFE TO WIRE Connector Type MIZEMY-CV-LC H.S.	Gornector No. D195 Connector Name LUCENSE PLATE LAMP LH Connector Type TK02FBR
Signal Name [Specification] -	Terminal Color Signal Name [Specification] No. of Wire S Signal Name C C C C C C C C C	Terminal Color Signal Name [Specification] Color Signal Name Specification Color Color	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] P

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< COMPONENT DIAGNOSIS >

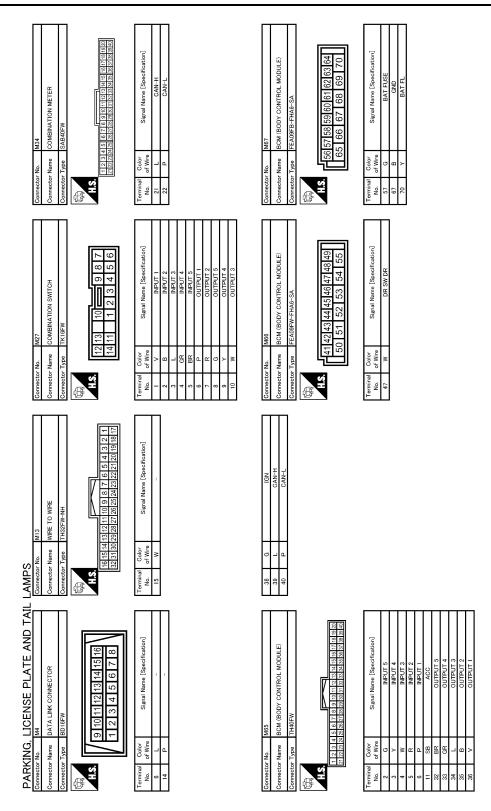
[HALOGEN TYPE]

Cornector No. E14 PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	A B C
Cornector No. E13 Commercer Name District Prower Commercer Type THI 12PW-NH Terminal Color Signal Name Specification Commercer Name Commercer Name Color Commercer Name Color	E F G
Connector No. Et 1 Connector Name PDM E. R. (NTELLIGENT POWER Connector Name PDM E. R. (NTELLIGENT POWER Connector Type MOSFTB-LC Terminal Color No. GWre Signal Name Specification Connector Name FRONT COMBINATION LAMP RH Connector Name FRONT COMBINATION LAMP RH Connector Type ZOSFGY Terminal Color No. GWre Signal Name Specification No. GWre Signal Name Specification I GR I GR I GR - I G	H I J K
PARKING, LICENSE PLATE AND TAIL Connector Name Connector Name Connector Name Connector Name Connector Name FRONT COMBINATION LAMP LH FRONT COMBINATION LAMP LH FRONT CONTENT LAMP LH FRONT CONTENT LAMP LH FRONT COMBINATION LAMP LH FRONT CONTENT LA	M N O

Revision: 2008 January EXL-201 2008 Rogue

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]



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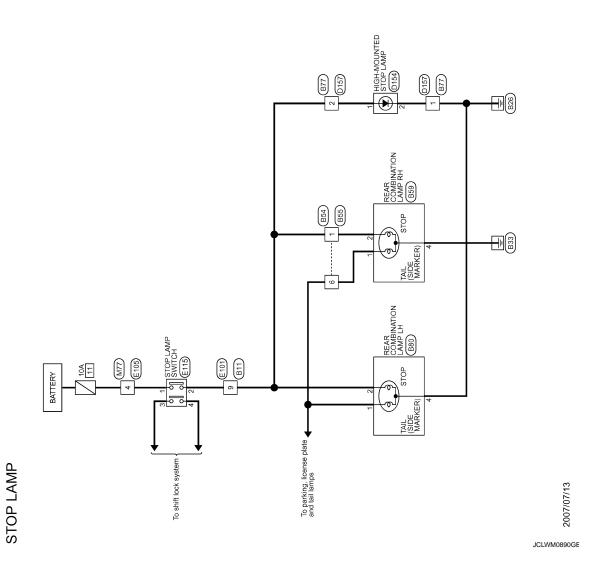
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IL LAMPS						
PARKING, LICENSE PLATE AND TAIL LAMPS	WIRE TO WIRE TH80MW-CS16-TM4		Signal Name [Specification]		-	1
(ING,	r Name		Color of Wire	>	۵	٦
PARKIN Connector No.	Connector Name Connector Type	H.S.	Terminal No.	2	12	22

STOP LAMP

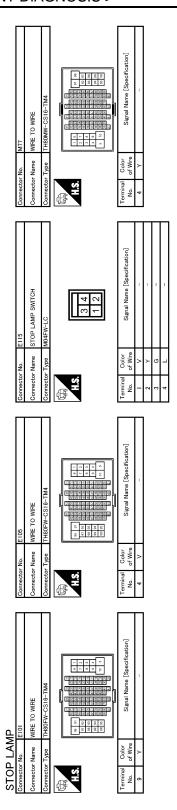
Wiring Diagram - STOP LAMP -

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Connector No. B59	A B C
Corrector No. 555 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector No. Connector No. Connector No. Connector No. Connector Name HIGH-WOUNTED STOP LAMP Connector Name HIGH-WOUNTED STOP LAMP Connector Type TROZFW Connector Type Connector Type TROZFW Connector Type TROZFW	E F G
Connector No. E54	I J K
STOP LAMP Connector Name WIRE TO WIRE Terminal Connector Name WIRE TO WIRE Signal Name [Specification] Terminal Color No. of Wire Signal Name [Specification] Terminal Color No. of Wire Signal Name [Specification] Terminal Color No. of Wire Signal Name [Specification] Terminal Color Signal Name [Specification] Terminal Color Signal Name [Specification] Terminal Color Signal Name [Specification]	M N O

Revision: 2008 January EXL-205 2008 Rogue



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BACK-UP LAMP

Wiring Diagram - BUCK-UP LAMP -

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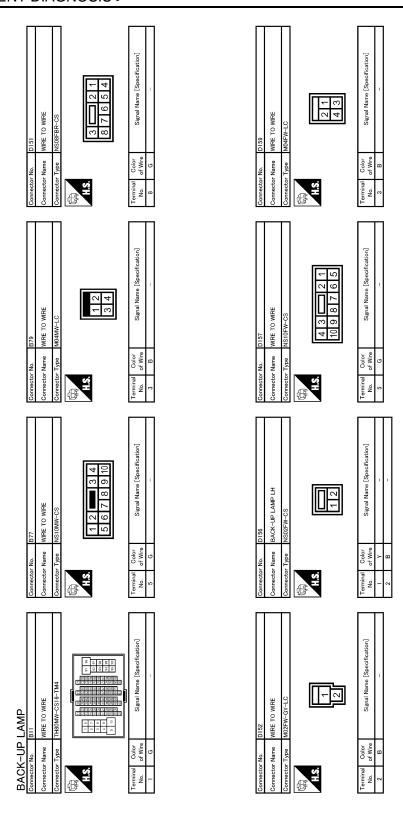
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BACK-UP LAMP



JCLWM0894GE

E	Signal Name (Specification) -	1V 19		A B
Connector No. E6 Connector Name WIRE TO WIRE Connector Type TR24MW-1V 1 2 3 4 5 6 12 13 14 15 16 17 18	Terminal Color Signal No. of Wire Signal 2 2 3 G	Connector No. F123 Connector Name WIRE TO WIRE Connector Type TR24FW-IV 11 10 9 8 7 — 12 22 21 20 19 18 No. of Wire 2 SB 3 G		C
	Specification]	Specification]		Е
DI 194 BACK-UP LAMP RH INSQZFW-CS	Signal Name [Specification]	PARK / NEUTRAL POSITION SWITCH RKGSFG 7 6 4 8 5 1 2 3		F
Connector No. Connector Name Connector Type	Terminal Color No. of Wire 1	Connector No. Connector Name Connector Type H.S. H.S. Terminal Color No. of Wire 3 SB 5 G 5 G		G H
WPE Y-LC	Signal Name [Specification]	W-CS16-TM4 W-CS16-TM4 Signal Name [Specification]		I
Connector No. D182 Connector Name WIRE TO WIRE Connector Type MO2MW-GV-LC	Terminal Color S No. of Wire 2 B	Connector No. E101 Connector Name WIRE TO WIRE Connector Type ITH80FW-CS18 H.S. ITH80FW-CS18 No. of Wire I Gold No. of Wire I Gold Signature I Gold I	•	K
8 2 9	Signal Name [Specification]	E15 DISTRIBUTION MODULE ENGINE ROOM) NSI 6FW-CS NSI 6FW-CS Signal Name [Specification]		EXL M
P LAMP D181 NS08MBR-CS 1 2 4 5 5	Color Signal G	E15 DISTRIBE NS 165-W- 10 10 10 10 10 10 10 10 10 10 10 10 10 1		Ν
BACK-UF Connector No. Connector Name Connector Type	Terminal No. 8	Connector None Connector Name Connector Type H.S. H.S. Oolon	JCLWM0895GE	0
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Revision: 2008 January EXL-209 2008 Rogue

[HALOGEN TYPE]

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

IGN ON SW Ignition switch OFF or ACC Off Ignition switch ON On KEY ON SW Mechanical key is removed from key cylinder Off CDL LOCK SW Door lock/unlock switch does not operate Off CDL UNLOCK SW Door lock/unlock switch does not operate Off Press door lock/unlock switch does not operate Off Press door lock/unlock switch does not operate Off Press door lock/unlock switch to the unlock side On DOOR SW-DR Driver's door closed Off DOOR SW-AS Passenger door opened On Passenger door opened On DOOR SW-RR Rear RH door closed Off Rear RH door opened On BACK DOOR SW Rear LH door opened On BACK DOOR SW Back door closed Off BACK DOOR SW Back door opened On KEY CYL LK-SW Other than driver door key cylinder LOCK position Off KEY CYL UN-SW Other than driver door key cylinder LOCK position On KEYLESS LOCK "LOCK" button of key Cylinder LOCK position	Monitor Item	Condition	Value/Status
Ignition switch ON On	ICN ON SW	Ignition switch OFF or ACC	Off
KEY ON SW Mechanical key is inserted to key cylinder On CDL LOCK SW Door lock/unlock switch does not operate Off CDL UNLOCK SW Press door lock/unlock switch to the lock side On DOOR SW-DR Door lock/unlock switch to the unlock side On DOOR SW-DR Driver's door closed Off DOOR SW-DR Passenger door closed Off DOOR SW-AS Passenger door closed Off Passenger door closed Off Rear RH door opened On Rear RH door closed Off Rear RH door opened On Rear RH door opened On BACK DOOR SW Back door closed Off Back door closed Off REY CYL LK-SW Other than driver door key cylinder LOCK position Off KEY CYL UN-SW Other than driver door key cylinder LOCK position Off KEY CYL UN-SW Other than driver door key cylinder UNLOCK position Off KEYLESS LOCK TUCK'b button of key fob is not pressed Off KEYLESS UNLOCK "UNLOCK" button of key fob is not pressed	IGIN OIN SW	Ignition switch ON	On
Mechanical key is inserted to key cylinder CDL LOCK SW Door lock/unlock switch does not operate Press door lock/unlock switch to the lock side On On Door lock/unlock switch does not operate Press door lock/unlock switch to the unlock side On DOOR SW-DR Driver's door closed Passenger door closed Passenger door closed Rear RH door closed Rear RH door opened On DOOR SW-RR Rear RH door opened Rear LH door closed Rear LH door closed Rear LH door opened Don Back DOOR SW Back door opened Driver door opened On On Cher than driver door key cylinder LOCK position Driver door key cylinder LOCK position Driver door key cylinder UNLOCK position On KEY CYL UN-SW Other than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position Off TUNLOCK' button of key fob is not pressed Off "UNLOCK' button of key fob is not pressed Off "UNLOCK' button of key fob is pressed Off "UNLOCK' button of key fob is pressed On "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "U	KEN ON SW	Mechanical key is removed from key cylinder	Off
CDL UNLOCK SW Press door lock/unlock switch to the lock side CDL UNLOCK SW Door lock/unlock switch does not operate Press door lock/unlock switch does not operate Off Press door lock/unlock switch to the unlock side On DOOR SW-DR Driver's door closed Driver's door opened On Passenger door opened On Passenger door opened On Rear RH door opened On Rear RH door opened On Rear RH door opened On Rear LH door opened On Rear LH door opened On Rear LH door opened On Back DOOR SW-RL Rear LH door opened On Rear LH door opened On Rear LH door opened On Back door opened On Cother than driver door key cylinder LOCK position Oriver door key cylinder UNLOCK position On KEY CYL LK-SW Other than driver door key cylinder UNLOCK position Off Tiver door key cylinder UNLOCK position Off "UNLOCK" button of key fob is not pressed On "UNLOCK" button of key fob is not pressed On "UNLOCK" button of key fob is pressed On "UNLOCK" button of key fob is pressed On "UNLOCK" button of Intelligent Key or door request switch are pressed "UNLOCK" button of Intelligent Key or door request switch are pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door re	KET ON SW	Mechanical key is inserted to key cylinder	On
Press door lock/unlock switch to the lock side Off Press door lock/unlock switch does not operate Off Press door lock/unlock switch to the unlock side On	CDL LOCK CW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW Press door lock/unlock switch to the unlock side On DOOR SW-DR Driver's door closed Off DOOR SW-AS Passenger door opened On DOOR SW-AS Passenger door opened On DOOR SW-RR Rear RH door closed Off Rear RH door opened On On DOOR SW-RL Rear LH door opened On BACK DOOR SW Back door opened On KEY CYL LK-SW Other than driver door key cylinder LOCK position Off KEY CYL LK-SW Other than driver door key cylinder UNLOCK position On KEY CYL UN-SW Other than driver door key cylinder UNLOCK position On KEYLESS LOCK "LOCK" button of key fob is not pressed Off KEYLESS LOCK "LOCK" button of key fob is not pressed Off KEYLESS UNLOCK "UNLOCK" button of key fob is not pressed Off "LOCK" button of key fob is pressed On "UNLOCK" button of Intelligent Key or door request switch are not pressed Off "LOCK" button of Intelligent Key or door request switch are not pressed On "LOCK" bu	CDL LOCK SW	Press door lock/unlock switch to the lock side	On
Press door lock/unlock switch to the unlock side Driver's door closed Driver's door closed Driver's door closed Driver's door opened Driver's door opened Door SW-AS Passenger door closed Passenger door opened Door SW-RR Rear RH door closed Rear RH door opened Door SW-RL Rear LH door closed Door SW-RL Back door closed Back door closed Doriver's door key cylinder LOCK position Driver door key cylinder LOCK position On Other than driver door key cylinder UNLOCK position On Cither than driver door key cylinder UNLOCK position Driver door key cylinder UNLOCK position On KEY CYL UN-SW TUNCOK' button of key fob is not pressed "UNLOCK' button of key fob is pressed "UNLOCK' button of key fob is pressed "UNLOCK' button of lntelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed "UNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent Key or door request switch are not pressed TUNLOCK' button of Intelligent	CDL LINI OCK CW	Door lock/unlock switch does not operate	Off
DOOR SW-DR Driver's door opened On DOOR SW-AS Passenger door closed Off Passenger door opened On DOOR SW-RR Rear RH door closed Off DOOR SW-RL Rear LH door closed Off BACK DOOR SW Rear LH door opened On BACK DOOR SW Back door obened On KEY CYL LK-SW Other than driver door key cylinder LOCK position Off KEY CYL UN-SW Other than driver door key cylinder LOCK position On KEY CYL UN-SW Other than driver door key cylinder UNLOCK position On KEYLESS LOCK Other than driver door key cylinder UNLOCK position On KEYLESS UNLOCK "LOCK" button of key fob is not pressed Off "LOCK" button of key fob is pressed On "UNLOCK" button of key fob is pressed On "LOCK" button of Intelligent Key or door request switch are not pressed Off "LOCK" button of Intelligent Key or door request switch are not pressed On "LOCK" button of Intelligent Key or door request switch are not pressed On "LOCK" button of Intelligent Key or door request switch are no	CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
Driver's door opened On	DOOD CW DD	Driver's door closed	Off
Passenger door opened On	DOOK SW-DK	Driver's door opened	On
Passenger door opened On	DOOD CW AC	Passenger door closed	Off
Rear RH door opened On	DOOR SW-AS	Passenger door opened	On
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Rear LH door opened On	DOOK SW-KK	Rear RH door opened	On
Rear LH door opened On Back door closed Back door closed Off Back door opened On KEY CYL LK-SW Other than driver door key cylinder LOCK position Off Driver door key cylinder LOCK position On KEY CYL UN-SW Other than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position Off EVENT OF STATE	DOOD CW DI	Rear LH door closed	Off
Back door opened On KEY CYL LK-SW Other than driver door key cylinder LOCK position Off Driver door key cylinder LOCK position On KEY CYL UN-SW Other than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position On KEYLESS LOCK "LOCK" button of key fob is not pressed "LOCK" button of key fob is not pressed "UNLOCK" button of key fob is not pressed "UNLOCK" button of key fob is pressed On "LOCK" button of ley fob is pressed On "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed On "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed RECON SW Rear window defogger switch OFF Off Rear window defogger switch OFF Off	DOOR SW-RL	Rear LH door opened	On
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Driver door key cylinder LOCK position On KEY CYL UN-SW Other than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position On KEYLESS LOCK "LOCK" button of key fob is not pressed Off "LOCK" button of key fob is pressed On KEYLESS UNLOCK "UNLOCK" button of key fob is not pressed Off "UNLOCK" button of key fob is pressed On "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed	KEN ON TROM	Other than driver door key cylinder LOCK position	Off
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Driver door key cylinder UNLOCK position KEYLESS LOCK "LOCK" button of key fob is not pressed "UNLOCK" button of key fob is not pressed "UNLOCK" button of key fob is not pressed "UNLOCK" button of key fob is pressed "UNLOCK" button of key fob is pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pr	KEN CAL TIM CM	Other than driver door key cylinder UNLOCK position	Off
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## COCK button of key fob is pressed ## UNLOCK" button of Intelligent Key or door request switch are not pressed ## UOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are not pressed ## UNLOCK" button of Intelligent Key or door request switch are not pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK" button of Intelligent Key or door request switch are pressed ## UNLOCK	RETLESS LOCK	"LOCK" button of key fob is pressed	On
"UNLOCK" button of key fob is pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are pressed "UNLOCK" button of Intelligent Key or door request switch are pressed On ACC ON SW Ignition switch OFF Ignition switch ACC or ON Rear window defogger switch OFF Off Off	KEAI ESS TIVII OCK	"UNLOCK" button of key fob is not pressed	Off
I-KEY LOCK pressed "LOCK" button of Intelligent Key or door request switch are pressed On "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are on Off "UNLOCK" button of Intelligent Key or door request switch are pressed "UNLOCK" button of Intelligent Key or door request switch are On Ignition switch OFF Ignition switch OFF Rear window defogger switch OFF Off Off Off Off Off Off Off	RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY UNLOCK "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are pressed On ACC ON SW Ignition switch OFF Ignition switch ACC or ON Rear window defogger switch OFF Off Off	I-KEY LOCK		Off
I-KEY UNLOCK pressed "UNLOCK" button of Intelligent Key or door request switch are pressed On Ignition switch OFF Ignition switch ACC or ON Rear window defogger switch OFF Off Off		"LOCK" button of Intelligent Key or door request switch are pressed	On
"UNLOCK" button of Intelligent Key or door request switch are pressed ACC ON SW Ignition switch OFF Ignition switch ACC or ON Rear window defogger switch OFF Off Off	LVEV LINI OOK	· ·	Off
ACC ON SW Ignition switch ACC or ON Rear window defogger switch OFF Off Off	I-RET UNLOCK		On
Ignition switch ACC or ON On Rear window defogger switch OFF Off Off	ACC ON CW	Ignition switch OFF	Off
REAR DEF SW	ACC ON SW	Ignition switch ACC or ON	On
Rear window defogger switch ON On	DEAD DEE OW	Rear window defogger switch OFF	Off
	KEAR DEF SW	Rear window defogger switch ON	On
Lighting switch OFF Off	LICHT OW 40T	Lighting switch OFF	Off
Lighting switch 1ST On	LIGHT SW 131	Lighting switch 1ST	On

[HALOGEN TYPE] < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
HOW F OW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
UCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
EVI FOO DANIO	PANIC button of key fob is not pressed	Off
EYLESS PANIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
RNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
INL LON-ONLON	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
WE WEED LINEW	UNLOCK button of key fob is not pressed	Off
KE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
IL DE AM OVA	Lighting switch OFF	Off
II BEAM SW	Lighting switch HI	On
IEAD LAMB OV.	Lighting switch OFF	Off
EAD LAMP SW 1	Lighting switch 2ND	On
EAD LAND OV	Lighting switch OFF	Off
IEAD LAMP SW 2	Lighting switch 2ND	On
UTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
ASSING SW	Other than lighting switch PASS	Off
ASSING SW	Lighting switch PASS	On
D EOC CW	Front fog lamp switch OFF	Off
R FOG SW	Front fog lamp switch ON	On
R FOG SW	NOTE: The item is indicated, but not monitored.	Off
TIDNI CICNIAL D	Turn signal switch OFF	Off
URN SIGNAL R	Turn signal switch RH	On
LIDNI SIGNAL I	Turn signal switch OFF	Off
URN SIGNAL L	Turn signal switch LH	On
NOINE DUN	Engine stopped	Off
NGINE RUN	Engine running	On
NA CM	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
PTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
SN SW CAN	Ignition switch OFF or ACC	Off
GN SW CAN	Ignition switch ON	On
יין אין אין אין אין אין אין אין אין אין	Front wiper switch OFF	Off
R WIPER HI	Front wiper switch HI	On
D WIDED I C''	Front wiper switch OFF	Off
R WIPER LOW	Front wiper switch LO	On

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< ECU DIAGNOSIS >

[HALOGEN TYPE]

Monitor Item	Condition	Value/Status
ED WIDED INT	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
ED WIDED CTOD	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading
DD 14/1DED 01/1	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
AID COND OW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
AIR COND SW	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off
LIZEV DIAZ DIAZNI	UNLOCK button of Intelligent Key is not pressed	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC	PANIC button of Intelligent Key is pressed	On
	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
	When back door opener switch is not pressed	Off
TRNK OPNR SW	When back door opener switch is pressed	On
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On

< ECU DIAGNOSIS > [HALOGEN TYPE]

Monitor Item	Condition	Value/Status	
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off	
	Ignition switch ON	On	_
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	_
ID DECCT EL 1	ID of front LH tire transmitter is registered	Done	_
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet	
ID REGST FR1	ID of front RH tire transmitter is registered	Done	
ID REGST FRT	ID of front RH tire transmitter is not registered	Yet	
ID REGST RR1	ID of rear RH tire transmitter is registered	Done	
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet	
ID DECET DI 4	ID of rear LH tire transmitter is registered	Done	(
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet	
WARNING LAMP	Tire pressure indicator OFF	Off	_
WAINING LAWP	Tire pressure indicator ON	On	
BUZZER	Tire pressure warning alarm is not sounding	Off	
DULLER	Tire pressure warning alarm is sounding	On	

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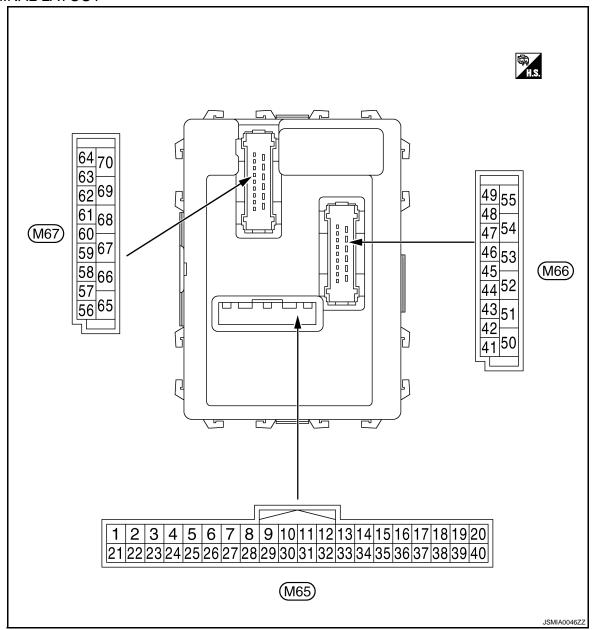
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TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-26, "COMB SW: CONSULT-III Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to <u>BCS-9</u>, "System <u>Diagram"</u>.

	Terminal No.		Description				Value
(Wire color)		color)	Signal name	Input/	Condition		(Approx.)
	+	_	Signal Hame	Output			(11 -)
	1	Ground	Ignition key hole illu-	Output	Ignition key hole	OFF	Battery voltage
	(V)	Ground	mination control	Output	illumination	ON	0 V

< ECU DIAGNOSIS > [HALOGEN TYPE]

Terminal No. (Wire color)		Description	Description			Value				
+	- COIOI)	Signal name	Input/ Output	Condition		(Approx.)				
					All switch OFF	0 V				
					Turn signal switch RH	40				
					Lighting switch HI	(V) 15				
2 (G) Gro	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 5 0 ++10ms 1.0 V				
				tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0				
					All switch OFF	2.0 V				
						0 V				
		Combination switch Inpu		Combination switch	Turn signal switch LH Lighting switch PASS	(V) 15				
3 6	Ground		Input		Lighting switch 2ND	15 0 0 ++10ms PKIB4959J 1.0 V				
(Y)		IIVI OT 4	(vviþ				(Wiper intermit- tent dial 4)		Front fog lamp switch ON	(V) 15 10 5 0
					All switch OFF	0.8 V				
					Front wiper switch LO	U V				
					Front wiper switch MIST	(V) 15				
4 (W)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch INT	15 0 ++10ms PKIB4959J 1.0 V				

< ECU DIAGNOSIS > [HALOGEN TYPE]

	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	0 V	
			Input	Combination switch	Front washer switch (Wiper intermittent dial 4)	(V)	
					Rear washer ON (Wiper intermittent dial 4)	15 10 5	
5 (R)	Ground	Combination switch INPUT 2			Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	та на при на пр	
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1	
					All switch OFF (Wiper intermittent dial 4)	0 V	
					Front wiper switch HI (Wiper intermittent dial 4)	(V)	
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5	
6 (P)					Wiper intermittent dial 3 (All switch OFF)	→ •10ms PKIB4959J	
	Ground	Combination switch INPUT 1	Input Combination switch Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	Input	switch with all switch OF • Wiper intermitte	(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10	
				Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 10ms i PKIB4955J 0.8 V		

< ECU DIAGNOSIS >

[HALOGEN TYPE]

	nal No.	Description				
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0
					UNLOCK position	8.0 - 8.5 V
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 **10ms
						8.0 - 8.5 V
					LOCK position	0 V
9	Ground	Stop lamp switch	mp switch Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(R)	(R) Ground Stop lamp switch	mpat	switch	ON (Brake pedal is depressed)	Battery voltage	
10 (SB)	Ground	Rear window defog- ger switch	Input	Rear window defogger switch	Not pressed	Battery voltage
		ger switch		Ignition switch O	Pressed	0 V
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch A		Battery voltage
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) ₁₅ 10 5 0 **10ms JPMIA0586GB 7.5 - 8.0 V
					(When passenger door opened)	0 V
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0
					ON (When rear door RH opened)	0 V

< ECU DIAGNOSIS >

[HALOGEN TYPE]

Terminal No. (Wire color) Description Input/				Value		
+ (vvire	– –	Signal name	Input/ Output		Condition	(Approx.)
15* ¹ (O)	Ground	TPMS mode trigger switch	Input	Ignition switch O	FF	(V) ₁₅ 10 5 0 +-10ms JPMIA0588GB 1.5 V
18* ¹ (O)	Ground	Remote keyless en- try receiver ground	Input	Ignition switch O	N	0 V
				Without Intelligent Key system	At any condition	5 V
19* ¹ (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent Key system	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
				ixey system	3 seconds or later after ig- nition switch OFF to ON	5 V
			Input	Without Intelligent Key system	At any condition	(V) 15 10 5 10 → 2ms JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
20* ¹ (GR)	Ground	Remote keyless entry receiver signal			Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	Battery voltage

< ECU DIAGNOSIS > [HALOGEN TYPE]

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)
					ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 → 1s JPMIA05900 12.0 V
					OFF	Battery voltage
25 (BR)	Ground	Immobilizer anten- na signal (Rx, Tx)	Input/ Output	Ignition switch OFF		Battery voltage
				Ignition switch O	FF	
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) ₁₅ 10 5 0 ***10ms JPMIA0591G
					A/C switch ON	0 V
				Ignition switch O	FF	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0 10ms 10ms 10ms 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)	Ciouna	TIGEGIA SWILOTI	прис	TIGEGIA SWITCH	ON	0 V
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)		switch		opener switch	Pressed	0 V

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< ECU DIAGNOSIS > [HALOGEN TYPE]

Terminal No. (Wire color)		Description				Value	
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)	
-					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V	
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	40	
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	0 → +10ms PKIB4956J	
33					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	
(GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15	
					Rear wiper switch INT (Wiper intermittent dial 4)	15	
				Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	→ +10ms PKIB4958J		

< ECU DIAGNOSIS >

[HALOGEN TYPE]

Terminal No. Description (Wire color)		Q Kiti		Value				
+	- Color)	Signal name	Input/ Output		Condition	(Approx.)		
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V		
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)			
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10		
					Rear washer switch ON (Wiper intermittent dial 4)	5		
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J 1.2 V		
35		Combination switch		Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V		
(B)	Ground	OUTPUT 2	Output	(Wiper intermittent dial 4)	(Wiper intermit-	Lighting switch 2ND	(V)	
					Lighting switch PASS Front wiper switch INT	(V) 15 10		
					Front wiper switch HI	0 + +10ms PKIB4958J 1.2 V		
						(V)		
					All switch OFF	15 10 5 0		
36 (V) Groun	Ground	OUTPUT 1	Output	Output Combination switch (Wiper intermittent dial 4)	Turn signal switch RH Turn signal switch LH Front wiper switch LO (Front wiper switch MIST)	7.2 V (V) 15 10 +-10ms		
					Front washer switch ON	PKIB4958J		

< ECU DIAGNOSIS > [HALOGEN TYPE]

	Terminal No. Description (Wire color)					Value
+	-	Signal name	Input/ Output	Condition		(Approx.)
37 (LG)	Ground	Key switch	Input	der	al key into ignition key cylin- nical key from ignition key	Battery voltage
				cylinder		0 V
38	Ground	Ignition switch ON	Input	Ignition switch O		0 V
(G)				Ignition switch O	N or START	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 **-10ms JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
44		_		Ignition switch	Rear wiper stop position	0 V
(B)	Ground	Rear wiper auto stop	Input	ON	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) 10 5 0 1.6 V
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 → 10ms JPMIA0591GB
						1.6 V
					UNLOCK position	0 V

< ECU DIAGNOSIS >

[HALOGEN TYPE]

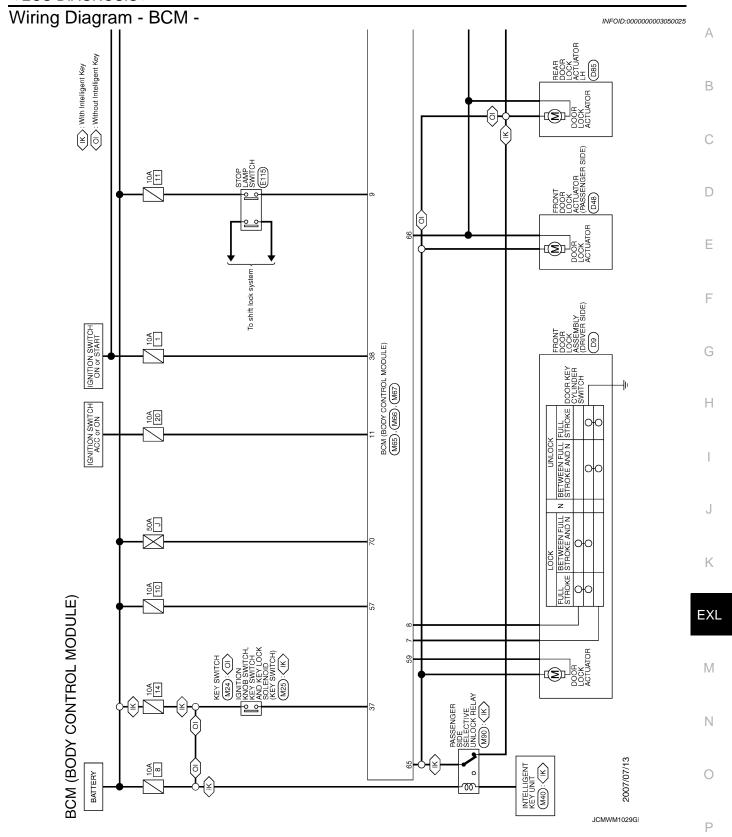
Terminal No. Description (Wire color)		0 150		Value		
+	-	Signal name	Input/ Output		Condition	(Approx.)
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V
					ON (When rear door LH opened)	0 V
49	Back door lamp con-	Back door lamp Output switch DOOR	Back door is closed (Back door lamp turns OFF)	Battery voltage		
(L)	Ground	trol	Output	position	Back door is opened (Back door lamp turns ON)	0 V
53	Ground	Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V
(V)		·	•	opener switch	Pressed (Back door actuator is activated)	Battery voltage
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF Rear wiper switch ON	0 V Battery voltage
56		Interior room lamp		After passing the saver operation t	interior room lamp battery	0 V
(Y)	Ground	power supply	Output	Any other time af	ter passing the interior room er operation time	Battery voltage
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
(L)		LOCK	- 1		Other then UNLOCK (Actuator is not activated)	0 V

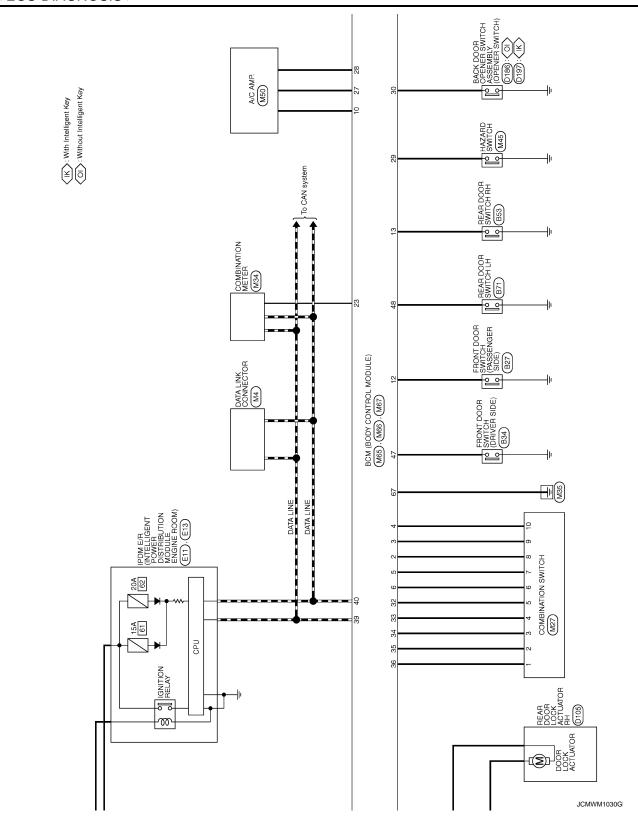
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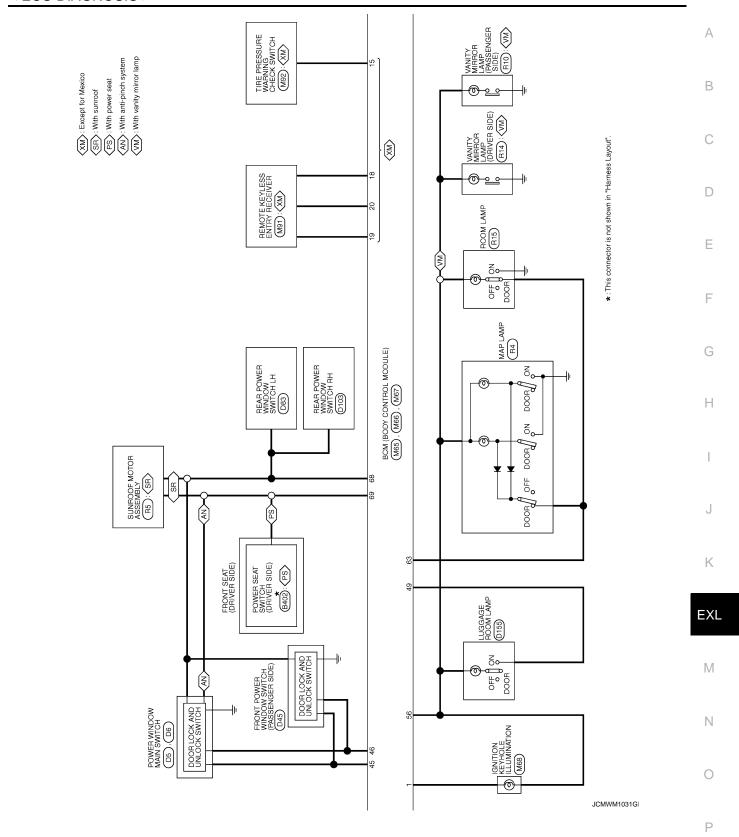
	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 18 18 PKIC6370E
-					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	put Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s 1s PKIC6370E
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage
(R)	Ground	timer control	Odipai	lamp	ON	0 V
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	Ground	All doors Eool	Output	7 III GOOTS	Other then LOCK (Actuator is not activated)	0 V
66	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (R)* ² (P)* ³	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage

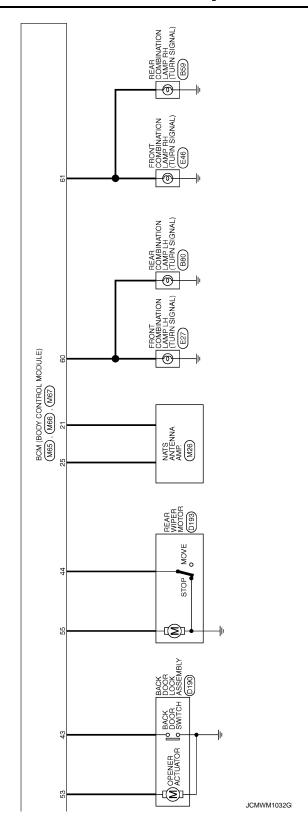
NOTE:

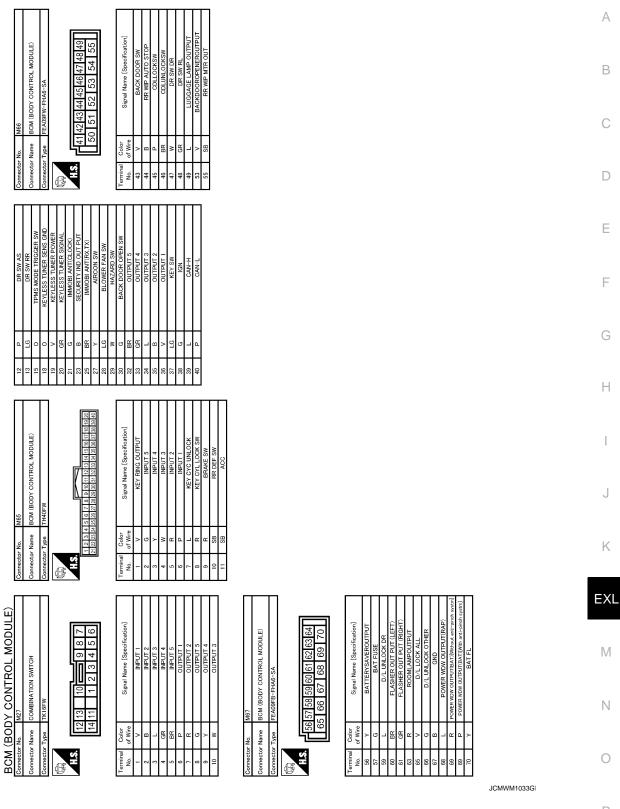
- *1: Except for Mexico
- *2: Without anti-pinch system
- *3: With anti-pinch system











Fail Safe INFOID:0000000003050026

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper auto stop signal. When the rear wiper auto stop signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

< ECU DIAGNOSIS > [HALOGEN TYPE]

- Pass more than 1 minute after the rear wiper stop.
- 2. Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

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.

DTC Inspection Priority Chart

INFOID:0000000003050027

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESS DATA ERR] FR C1717: [PRESS DATA ERR] FR C1717: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1725: [BATT VOLT LOW] FR C1729: [WHCL SPEED SIG ERR C1729: VHCL SPEED SIG ERR

DTC Index

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-35
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	×	<u>VV1-14</u>
C1707: LOW PRESSURE RL	×	

< ECU DIAGNOSIS >

[HALOGEN TYPE]

DTC	Tire pressure monitor warning lamp ON	Reference	А
C1708: [NO DATA] FL	×		
C1709: [NO DATA] FR	×	WT-16	В
C1710: [NO DATA] RR	×	<u>W1-10</u>	
C1711: [NO DATA] RL	×		
C1712: [CHECKSUM ERR] FL	×		С
C1713: [CHECKSUM ERR] FR	×	WT-19	
C1714: [CHECKSUM ERR] RR	×	<u>W1-19</u>	
C1715: [CHECKSUM ERR] RL	×	-	D
C1716: [PRESS DATA ERR] FL	×		
C1717: [PRESS DATA ERR] FR	×	WT-22	Е
C1718: [PRESS DATA ERR] RR	×	<u> </u>	
C1719: [PRESS DATA ERR] RL	×		
C1720: [CODE ERR] FL	×		F
C1721: [CODE ERR] FR	×	WT-24	
C1722: [CODE ERR] RR	×	<u>W1-24</u>	G
C1723: [CODE ERR] RL	×	-	
C1724: [BATT VOLT LOW] FL	_		
C1725: [BATT VOLT LOW] FR	_	WT-27	Н
C1726: [BATT VOLT LOW] RR	_	<u> </u>	
C1727: [BATT VOLT LOW] RL	_		1
C1729: VHCL SPEED SIG ERR	×	<u>WT-30</u>	1
C1735: IGN CIRCUIT OPEN	_	BCS-36	

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

Reference Value

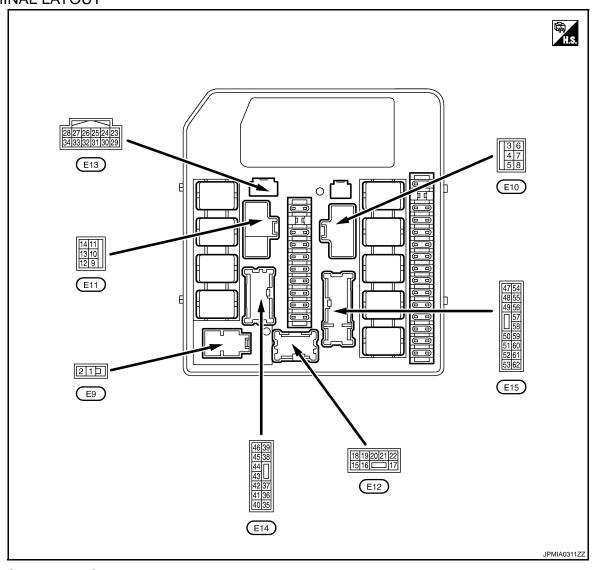
VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition		
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	1 - 4	
		A/C switch OFF	Off	
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On	
TAIL & CLD DEO	Lighting switch OFF	-1	Off	
TAIL&CLR REQ	Lighting switch 1ST or 2ND		On	
LIL LO DEO	Lighting switch OFF		Off	
HL LO REQ	Lighting switch 2ND		On	
	Lighting switch OFF		Off	
HL HI REQ	Lighting switch HI (Light is i	lluminated)	On	
FR FOG REQ		Front fog lamp switch OFF	Off	
NOTE: This item is monitored only on the vehicle with front fog lamp.	Lighting switch 2ND	Front fog lamp switch ON	On	
		Front wiper switch OFF	Stop	
FB 144B BF0	Ignition switch ON	Front wiper switch INT	1LOW	
FR WIP REQ		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	
ST RLY REQ NOTE:	When Intelligent Key is outs is pushed	ide the vehicle, and the push switch	Off	
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is inside pushed	le the vehicle, and the push switch is	On	
IGN RLY	Ignition switch OFF or ACC		Off	
IONIALI	Ignition switch ON		On	
		Rear window defogger switch OFF	Off	
RR DEF REQ	Ignition switch ON	Rear window defogger switch ON (Rear window defogger is operating)	On	
OII D CW	Ignition switch OFF, ACC or	Open		
OIL P SW	Ignition switch ON		Close	
DTRL REQ	Daytime running light syster	m is not operated.	Off	
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light system	m is operated.	On	

[HALOGEN TYPE] < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
HOOD SW	Close the hood	Off
NOTE: This item is monitored only the vehicle for Mexico.	Open the hood	On
	Not operation	Off
THFT HRN REQ	Horn is activated with vehicle security system or panic alarm system.	On
LIODAL CLUDD	Not operation	Off
HORN CHIRP	Horn is activated with key fob LOCK operation.	On

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No.	•			Value
+ (VVire	color)	Signal name	Input/ Output	Condition	(Approx.)
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (G)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage

EXL-233 Revision: 2008 January 2008 Rogue

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Terminal No. Description Value (Wire color) Condition Input/ (Approx.) Signal name Output When engine is clanking Battery voltage 3 Starter relay power supply Output Ground (O) 0 V When engine is not clanking 0 V OFF 4 Cooling fan relay-1 power Cooling fan opera-Ground Output (W) supply MID or HI Battery voltage Ignition switch OFF, ACC or ON 0 V 5 Ground Ignition switch START Input (R) Ignition switch START Battery voltage 6 Battery power supply Ground Input Ignition switch OFF Battery voltage (BR) (Cooling fan relay) **OFF** Battery voltage 7 Cooling fan motor-2 (HI) Cooling fan opera-Ground (P) ground tion HI 0 V 0 V OFF R Cooling fan opera-Cooling fan relay-2 power Ground Output (G) supply HI Battery voltage 11 Ground Ground 0 V Ignition switch ON (B) Rear window defogger 0 V switch OFF 12 Rear window defogger re-Ground Output Ignition switch ON (O) lay power supply Rear window defogger Battery voltage switch ON Not operated Battery voltage 15*¹ Daytime running light relay Daytime running Ground Output control light system (SB) 0 V Operated 0 V Front fog lamp switch OFF 16*² Lighting switch Ground Output Front fog lamp (LH) 2ND (Y) Front fog lamp switch ON Battery voltage Front fog lamp switch OFF 0 V 17*² Lighting switch Ground Front fog lamp (RH) Output (W) Front fog lamp switch ON Battery voltage Lighting switch OFF 0 V 18 Ground Headlamp LO (LH) Output (L) Lighting switch 2ND Battery voltage Lighting switch OFF 0 V 20 Output Ground Headlamp LO (RH) (SB) Lighting switch 2ND Battery voltage 0 V Lighting switch OFF 21 Ground Headlamp HI (LH) Output · Lighting switch 2ND and HI (G) Battery voltage · Lighting switch PASS Lighting switch OFF 0 V 22 Ground Headlamp HI (RH) Output · Lighting switch 2ND and HI (LG) Battery voltage · Lighting switch PASS 0 V Engine stopped 23 Ground Oil pressure switch Input Ignition switch ON (W) Battery voltage Engine running 0 V Front wiper stop position 24 Ground Front wiper auto stop Ignition switch ON Input Any position other than (Y) Battery voltage front wiper stop position 25 0 V Ground Ground Ignition switch ON (B) 26 Input/ CAN-L (P) Output 27 Input/ CAN-H (L) Output

[HALOGEN TYPE] < ECU DIAGNOSIS >

	nal No.	Description			.	Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
31	0	Out the factor of the factor	0 1 1	Cooling fan opera-	OFF	Battery voltage
(LG)	Ground	Cooling fan relay-4 control	Output	tion	LO	0 - 1.0 V
32					ximately 2 seconds or more tion switch from ON to OFF	Battery voltage
(V)	Ground	ETC relay control	Input	Ignition switch ONFor approximately tion switch from C	2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input	Ignition quitab ON	Engine stopped	Battery voltage
(OIV)				Ignition switch ON	Engine running	0.8 V
34* ³		111		Close the hood	1	Battery voltage
(W)	Ground	Hood switch	Input	Open the hood		0 V
37		Tail, license plate lamps	•	Lighting switch OFF		0 V
(R)	Ground	and illuminations	Output	Lighting switch 1ST		Battery voltage
38	_			Lighting switch OFF		0 V
(R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
39				Lighting switch OFF		0 V
(GR)	Ground	Parking lamp (RH)	Output	Lighting switch 1ST		Battery voltage
40	_			Ignition switch OFF	or ACC	0 V
(BR)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
41				Ignition switch OFF	or ACC	0 V
(O)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
42		Front wiper HI			Front wiper switch OFF	0 V
(L)	Ground		Output	Ignition switch ON	Front wiper switch HI	Battery voltage
43					Front wiper switch OFF	0 V
(G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch LO	Battery voltage
					Selector lever "P" or "N"	Battery voltage
45 (Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever in any position other than "P" or "N"	0 V
46	Ground	Fuel pump relay power	Output	Ignition switch OF After passing apprafter turning the ignition	roximately 1 second or more	0 V
(W)	Ground	supply	Output	For approximately ignition switch ONEngine running	1 second after turning the	Battery voltage
47					ximately 4 seconds or more tion switch from ON to OFF	0 V
47 (BR)	Ground	ECM relay power supply	Output	Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage
19					ximately 4 seconds or more tion switch from ON to OFF	0 V
48 (R)	Ground	ECM relay power supply	Output	 For approximately 	Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF	
50	0	Cooling for sales 5 and 1	0	Cooling fan opera-	OFF	Battery voltage
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V

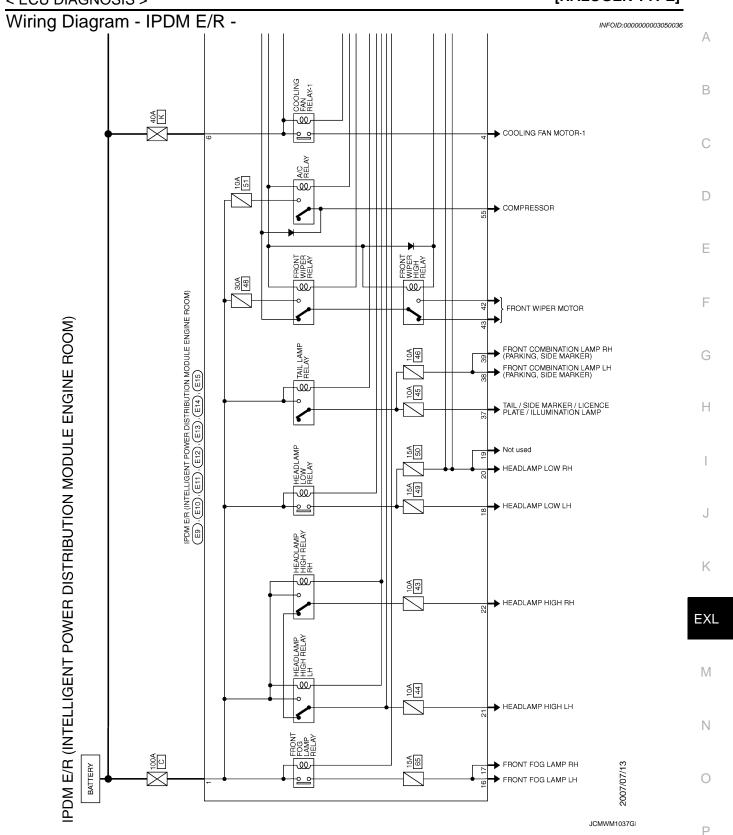
EXL-235 Revision: 2008 January 2008 Rogue

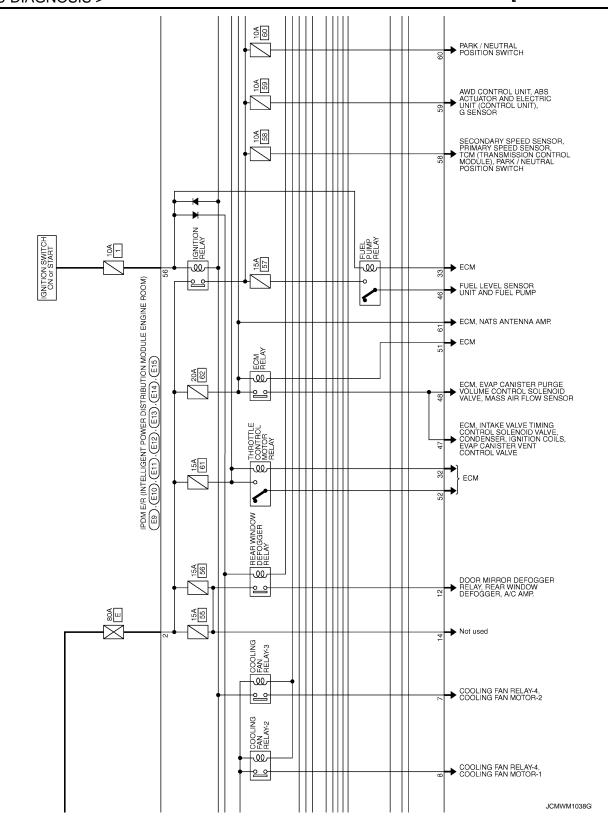
	nal No.	Description		Condition		Value										
(Wire	color)	Signal name	Input/ Output			(Approx.)										
E1				After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		Battery voltage										
51 (L)	(-round E('IVI rolay control		Output	Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF		0 - 1.0 V										
52				After passing approximately 2 seconds or more after turning the ignition switch from ON to OFF Output Ignition switch ON For approximately 2 seconds after turning ignition switch from ON to OFF		0 V										
(P)	Ground	ETC relay power supply	Output			Battery voltage										
				Engine stopped		0 V										
55		und A/C relay power supply	Output		A/C switch OFF	0 V										
(O)				Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Engine running
56	0	Leading and Male ON	1	Ignition switch OFF	or ACC	0 V										
(L)	Ground	Ignition switch ON	Input	Ignition switch ON		Battery voltage										
57	Crownd	Llows volov control	Outnut	The horn is not activ	vated	Battery voltage										
(V)	Ground	Horn relay control	Output	The horn is activated	d	0 V										
58	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V										
(LG)	Ground	ignition relay power supply	Output	Ignition switch ON		Battery voltage										
59	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V										
(BR)	Siound	ignition relay power supply	Sutput	Ignition switch ON		Battery voltage										
60	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V										
(SB)	Ground	ignition relay power supply	Output	Ignition switch ON		Battery voltage										
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage										

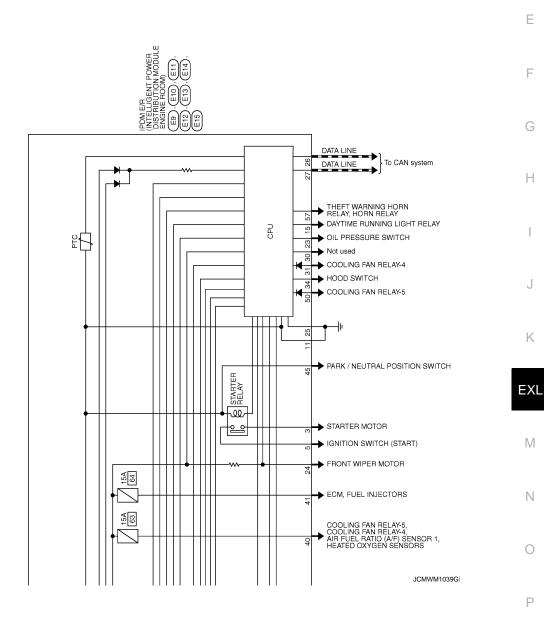
^{*1:} With daytime running light system

^{*2:} With front fog lamp system

^{*3:} For Mexico







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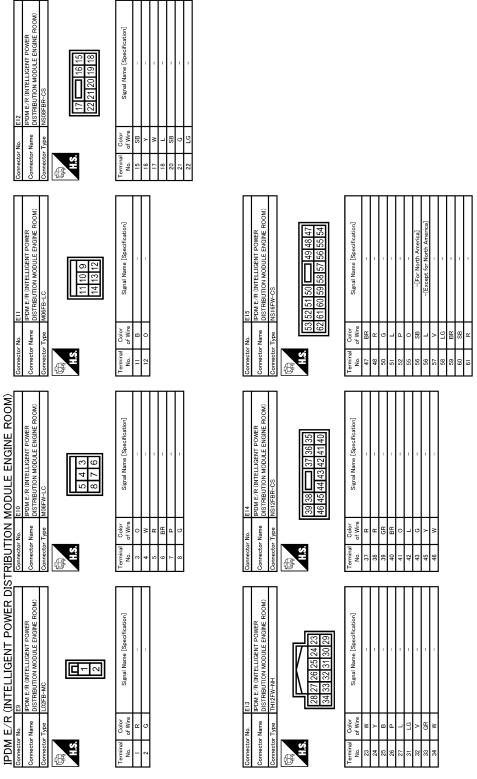
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[HALOGEN TYPE] < ECU DIAGNOSIS >



JCMWM1040G

INFOID:0000000003050037

Fail Safe

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

[HALOGEN TYPE] < ECU DIAGNOSIS >

Control part	Fail-safe in operation
Cooling fan	 The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn ON when the ignition switch is turned ON The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn OFF when the ignition switch is turned OFF Cooling fan relay-4 OFF
A/C compressor	A/C relay OFF

If no CAN communication is available with BCM

Control part	Fail-safe in operation
Headlamp	 The headlamp low relay turns ON when the ignition switch is turned ON The headlamp low relay turns OFF when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsLicense plate lampsTail lampsIlluminations	 The tail lamp relay and the daytime running light relay* turn ON when the ignition switch is turned ON The tail lamp relay and the daytime running light relay* turn OFF 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 front 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 INT mode and the front wiper motor is operating.
Front fog lamps	Front fog lamp relay OFF
Starter motor	Starter relay OFF
Rear window defogger	Rear window defogger relay OFF
Horn	Horn relay OFF

NOTE:

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

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

Detection		IPDM E/R judgment	Operation	
Ignition switch ON signal	Ignition relay	- IPDIVI E/K judgitietit	Operation	
ON	ON	Ignition relay normal	_	
OFF	OFF	Ignition relay normal	_	
OFF	ON	Ignition relay ON stuck	Turn on the tail lamp relay and daytime run- ning light relay* for 10 minutes	
ON	OFF	Ignition relay OFF stuck	Detect DTC "B2099: IGN RELAY OFF"	

NOTE:

FRONT WIPER CONTROL

IPDM E/R detects the front wiper stop position with the front wiper auto stop signal.

When the front wiper auto stop signal is in the conditions listed below, IPDM E/R repeats a front wiper 10 seconds operation and 20 seconds stop five times.

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^{*:} With daytime running light system

^{*:} With daytime running light system

[HALOGEN TYPE] < ECU DIAGNOSIS >

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

DTC Index INFOID:0000000003050038

CONSULT display	Fail-safe	Timin	g ^{NOTE}	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	PAST	PCS-13
B2099: IGN RELAY OFF	_	CRNT	PAST	PCS-14

NOTE:

The details of time display are as follows.

- CRNT: The malfunctions that are detected now.
- PAST: The number is indicated when it is normal at present and a malfunction was detected in the past.

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[HALOGEN TYPE]

INFOID:0000000001722044

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SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

CAUTION:

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 (HI) is not turned ON.	One side	 Fuse Halogen bulb (HI) Harness between IPDM E/R and the headlamp high Daytime running light relay (with daytime running light system) IPDM E/R 	Headlamp (HI) circuit Refer to <u>EXL-161</u> .
	Both sides	Symptom diagnosis	
Headlamp (HI) is not	When ignition switch is turned ON.	"BOTH SIDE HEADLAMPS (HI) A Refer to <u>EXL-245</u> .	RE NOT TURNED ON"
turned OFF.	When ignition switch is turned OFF.	IPDM E/R	_
High beam indicator lamp [The headlamp (HI) is turn		Combination meter	Combination meter Data monitor "HI-BEAM IND" BCM (HEAD LAMP) Active test "HEADLAMP"
Headlamp (LO) is not turned ON.	One side	Fuse Halogen bulb (LO) Harness between IPDM E/R and the headlamp low IPDM E/R	Headlamp (LO) circuit Refer to EXL-164.
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-246.	
Headlamp (LO) is not	When ignition switch is turned ON.		
turned OFF.	When ignition switch is turned OFF.	IPDM E/R	_
Daytime running light is not turned ON.		Fuse Halogen bulb (HI) Harness between IPDM E/R and the daytime running light relay Daytime running light relay IPDM E/R BCM ECM Combination meter	Daytime running light relay circuit Refer to EXL-168. BCM (HEAD LAMP) Data monitor "ENGINE RUNNING" and "PKB SW" BCM (HEAD LAMP) Active test "DAYTIME RUNNING LIGHT"
Front fog lamp is not turned ON.	One side	Front fog lamp bulb Harness between IPDM E/R and the front fog lamp Front fog lamp IPDM E/R	Front fog lamp circuit Refer to EXL-166.
Both sides Front fog lamp is not turned ON.		Symptom diagnosis "BOTH SIDE FRONT FOG LAMPS	S ARE NOT TURNED ON"

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EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[HALOGEN TYPE]

Symp	otom	Possible cause	Inspection item
Parking lamp is not turned ON.		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-171.
Tail lamp is not turned ON.		Tail lamp bulb Harness between IPDM E/R and the rear combination lamp Rear combination lamp	Tail lamp circuit Refer to EXL-177.
License plate lamp is not to	urned ON.	License plate lamp bulb Harness between IPDM E/R and the license plate lamp License plate lamp	License plate lamp circuit Refer to EXL-179.
Tail lamp and the license p ON.	late lamp are not turned	Fuse Harness between IPDM E/R and the rear combination lamp IPDM E/R	License plate lamp circuit Refer to EXL-179.
 Parking lamp, the tail lamp and the license plate lamp are not turned ON. Parking lamp, the tail lamp and the license plate lamp are not turned OFF. (Each illumination is turned ON/OFF.) 		Symptom diagnosis "PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-247.	
Tail lamp indicator is not turned ON. (Parking, tail lamps are turned ON.)		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. (Applicable side performs the high flasher activation.)	Harness between BCM and each turn signal lamp Turn signal lamp bulb	Turn signal circuit Refer to EXL-173.
DIITIK.	Indicator lamp is included.	Combination switch Harness between the combination switch and BCM BCM	Combination switch Refer to BCS-42.
	One side	Combination meter	_
Turn signal indicator lamp does not blink. (Turn signal indicator lamp is normal.)	Both sides (Always)	Turn signal indicator lamp signal BCM Combination meter	Combination meter Data monitor "TURN IND" BCM (FLASHER) Active test "FLASHER"
	Both sides (Only when activating 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-41.
 Hazard warning lamp do Hazard warning lamp co (Turn signal is normal.) 		 Hazard switch Harness between the hazard switch and BCM BCM 	Hazard switch Refer to <u>EXL-175</u> .

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS > [HALOGEN TYPE]

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description INFOID:000000001720645

Both side headlamps (HI) are not turned ON when setting to the lighting switch HI or PASS.

Diagnosis Procedure

INFOID:0000000001720646

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1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-66, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

©CONSULT-III DATA MONITOR

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

Monitor item	Con	Monitor status	
HL HI REQ	Lighting switch	HI or PASS	On
TIETTINEQ	(2ND)	LO	Off

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-161, "Component Function Check".

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[HALOGEN TYPE]

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description INFOID:000000001720647

Both side headlamps (LO) are not turned ON in any condition.

Diagnosis Procedure

INFOID:0000000001720648

1. CHECK COMBINATION SWITCH

Check the combination switch. Refer to BCS-66, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

(E)CONSULT-III DATA MONITOR

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

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

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to EXL-164, "Component Function Check".

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON [HALOGEN TYPE]

< SYMPTOM DIAGNOSIS >

PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

Description INFOID:0000000003050050

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

Diagnosis Procedure

1. CHECK FUSE

Check that the following fuse is fusing.

Unit	Location	Fuse No.	Capacity
Parking lamp		#46	10 A
Tail lamp License plate lamp	IPDM E/R	#45	10 A

Is the fuse fusing?

>> Repair the applicable circuit. And then replace the fuse. YES

NO >> GO TO 2.

2.combination switch inspection

Check the combination switch. Refer to BCS-66, "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

(P)CONSULT-III DATA MONITOR

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

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

Is the item status normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

4. TAIL LAMP CIRCUIT INSPECTION

Check the tail lamp circuit. Refer to EXL-177, "Component Function Check".

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part. **EXL**

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EXL-247 Revision: 2008 January 2008 Rogue

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[HALOGEN TYPE]

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description

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

Diagnosis Procedure

INFOID:0000000003050053

1. CHECK FUSE

Check that the following fuse is fusing.

Unit	Location	Fuse No.	Capacity
Front fog lamp	IPDM E/R	#65	15 A

Is the fuse fusing?

YES >> Repair the applicable circuit. And then replace the fuse.

NO >> GO TO 2.

2. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-66, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning part.

3. CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

(P)CONSULT-III DATA MONITOR

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

Monitor item	Condition		Monitor status
FR FOG REQ Front fog lamp switch (With lighting switch 1ST)	ON	On	
	(With lighting switch 1ST)	OFF	Off

Is the item status normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-67, "Exploded View".

4. FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-166, "Component Function Check".

Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

PRECAUTIONS

[HALOGEN TYPE] < PRECAUTION >

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000003249001

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 AIRBAG" 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 AIRBAG".
- 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.

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000003249003

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

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ON-VEHICLE MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Description INFOID:0000000001716660

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.

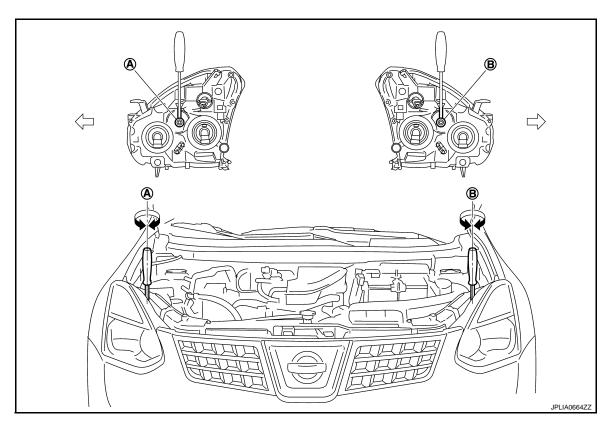
Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

Ride alone on the driver seat.

AIMING ADJUSTMENT SCREW



- A. Headlamp RH (UP/DOWN) adjustment screw
- B. Headlamp LH (UP/DOWN) adjustment screw

HEADLAMP AIMING ADJUSTMENT

< ON-VEHICLE MAINTENANCE >

[HALOGEN TYPE]

	Adjustment screw	Screw driver rotation	Facing direction
A Headlamp RH (UP/DOWN)	Clockwise	DOWN	
	neadiamp kn (0P/DOWN)	Counterclockwise	UP
B Headlamp LH (UP/DOWN)	Clockwise	DOWN	
	Counterclockwise	UP	

Aiming Adjustment Procedure

INFOID:0000000002996045

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 bulb center and the screen.
- 3. Start the engine. Turn the headlamp (LO) ON.

NOTE:

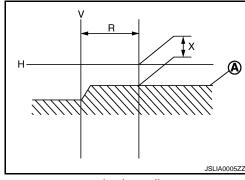
Shut off the headlamp light with the board to prevent from illuminating the adjustment screen. **CAUTION:**

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

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 measure-: 350 ± 175 mm (13.78 ± 6.89 ment range (R) in)

Low beam distribution on the screen

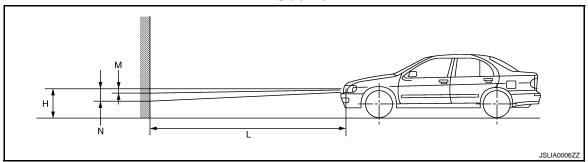


Adjust the cutoff line height (X) with the aiming adjustment screw so as to enter in the adjustment range (M–N) according to the horizontal center line of headlamp (H).

unit: mm (in)

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

Side view



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HEADLAMP AIMING ADJUSTMENT

< ON-VEHICLE MAINTENANCE >

[HALOGEN TYPE]

Distance between the headlamp center and the screen (L)

: 10 m (32.8 ft)

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FRONT FOG LAMP AIMING ADJUSTMENT

PREPARATION BEFORE ADJUSTING

NOTE:

For details, refer to the regulations in your own country.

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

Turn the aiming adjusting screw for adjustment.

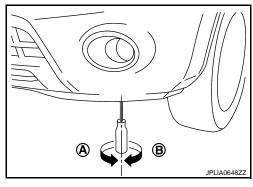
A: UP

B: DOWN

 For the position and direction of the adjusting screw, refer to the figure.

NOTE:

A screwdriver or hexagonal wrench [6 mm (0.24 in)] can be used for adjustment.



INFOID:0000000003050056

Aiming Adjustment Procedure

1. Place the screen.

NOTE:

- · Stop the vehicle facing the wall.
- Place the board on a plain road vertically.
- 2. Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the front fog lamp center and the screen.
- 3. Start the engine. Illuminate the front fog lamp.

CAUTION:

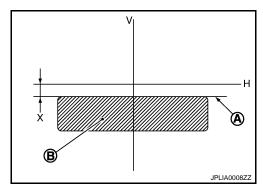
Never cover the lens surface with a tape etc. The lens is made of resin.

NOTE:

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

4. Adjust the cutoff line height (A) with the aiming adjustment screw so that the distance (X) between the horizontal center line of front fog lamp (H) and (A) becomes 130 mm (5.12 in).

Front fog lamp light distribution on the screen



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Revision: 2008 January EXL-253 2008 Rogue

FRONT FOG LAMP AIMING ADJUSTMENT

< ON-VEHICLE MAINTENANCE >

[HALOGEN TYPE]

A : Cutoff line

B : High illuminance area

H : Horizontal center line of front fog lampV : Vertical center line of front fog lamp

X : Cutoff line height

[HALOGEN TYPE]

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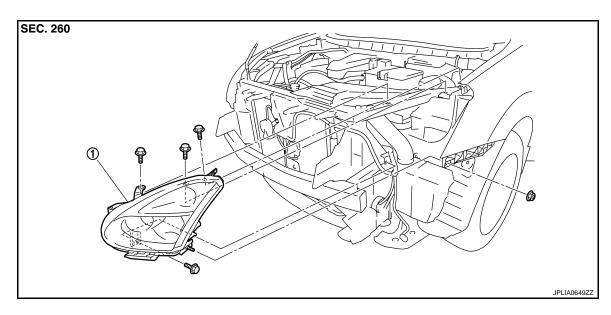
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ON-VEHICLE REPAIR

FRONT COMBINATION LAMP

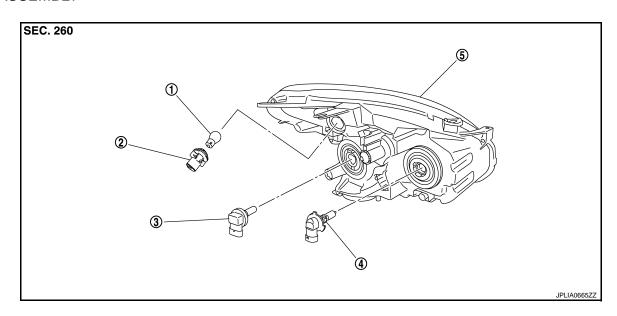
Exploded View

REMOVAL



1. Front combination lamp

DISASSEMBLY



- Front turn signal/parking (side marker)
 lamp bulb
- 4. Halogen bulb (HI)

- Front turn signal/parking (side marker) 3. Halogen bulb (LO) lamp bulb socket
- 5. Headlamp housing assembly

Removal and Installation

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REMOVAL

CAUTION:

Disconnect the battery negative terminal or the fuse.

Remove front bumper fascia. Refer to <u>EXT-13, "Exploded View"</u>.

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FRONT COMBINATION LAMP

< ON-VEHICLE REPAIR > [HALOGEN TYPE]

- Remove the headlamp mounting bolts and nuts.
- 3. Remove the mounting stud of the headlamp outside from front fender.
- 4. Pull out the headlamp assembly forward the vehicle.
- Disconnect the connector before removing the headlamp assembly.

INSTALLATION

Install in the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to <a>EXL-250, "Description".

Replacement

CAUTION:

- Disconnect the battery negative terminal or the fuse.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.

HEADLAMP BULB (LO)

- Remove the air duct^{*}. Keep a service area.
 *When replace a left.
- 2. Rotate the bulb counterclockwise and unlock it.
- 3. Disconnect the headlamp bulb connector.
- 4. Remove the bulb from the headlamp housing assembly.

HEADLAMP BULB (HI)

- Remove the air duct^{*}. Keep a service area.
 *When replace a left.
- 2. Rotate the bulb counterclockwise and unlock it.
- 3. Disconnect the headlamp bulb connector.
- 4. Remove the bulb from the headlamp housing assembly.

FRONT TURN SIGNAL/PARKING (SIDE MARKER) LAMP BULB

- 1. Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb from the bulb socket.

Disassembly and Assembly

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DISASSEMBLY

- 1. Rotate the headlamp bulb (LO) counterclockwise and unlock it
- Disconnect the headlamp bulb (LO) connector. And remove the bulb from the headlamp housing assembly.
- 3. Rotate the headlamp bulb (HI) counterclockwise and unlock it
- Disconnect the headlamp bulb (HI) connector. And remove the bulb from the headlamp housing assembly.
- 5. Rotate the front turn signal/parking (side marker) lamp bulb socket counterclockwise and unlock it.
- Remove the bulb from the front turn signal/parking (side marker) lamp bulb socket.

ASSEMBLY

Assemble in the reverse order of disassembly.

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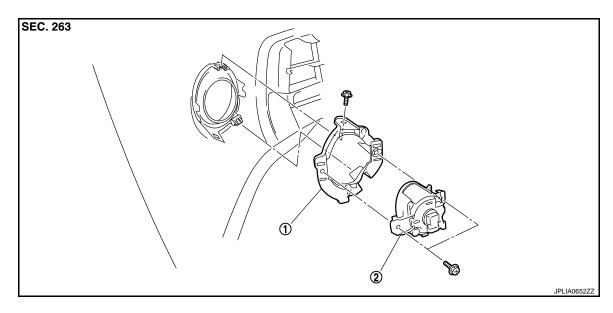
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FRONT FOG LAMP

Exploded View



1. Front fog lamp bracket

2. Front fog lamp

Removal and Installation

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- 1. Remove the front fender protector. Keep a service area. Refer to EXT-22, "Exploded View".
- 2. Remove the front fog lamp connector.
- 3. Remove the screw. And remove the front fog lamp.
- 4. Remove the screw. And remove the front fog lamp bracket.

INSTALLATION

Installation is the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to EXL-253, "Description"

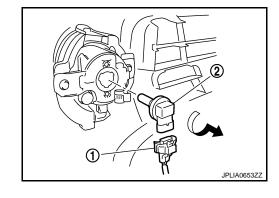
Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

FRONT FOG LAMP BULB

- 1. Remove the front fender protector. Keep the service area. Refer to EXT-22, "Exploded View".
- Remove the front fog lamp bulb connector (1).
- 3. Rotate the bulb (2) counterclockwise and unlock it.



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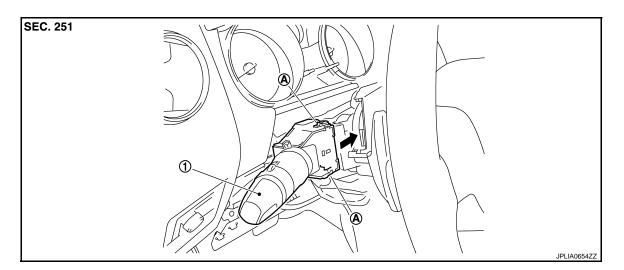
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LIGHTING & TURN SIGNAL SWITCH

Exploded View



- 1. Lighting & turn signal switch
- A. Pawl

Removal and Installation

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REMOVAL

- Remove steering column cover. Refer to <u>IP-12, "Exploded View"</u>.
- 2. While pressing pawls, pull the lighting & turn signal switch. And disconnect from the switch base.

INSTALLATION

Installation is the reverse order of removal.

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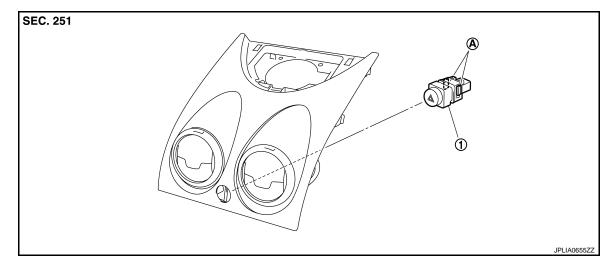
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HAZARD SWITCH

Exploded View



- 1. Hazard switch
- A. Pawls

Removal and Installation

REMOVAL

- 1. Remove the cluster lid C. Refer to IP-12, "Exploded View".
- 2. Push the pawl. And remove the hazard switch.

INSTALLATION

Install in the reverse order of removal.

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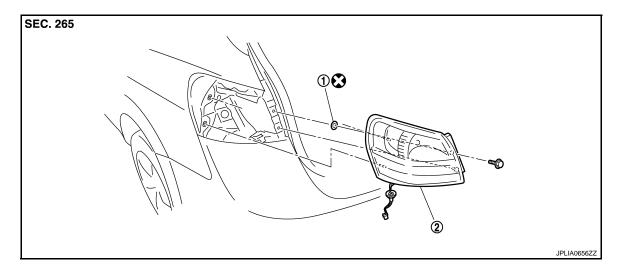
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REAR COMBINATION LAMP

Exploded View

REMOVAL

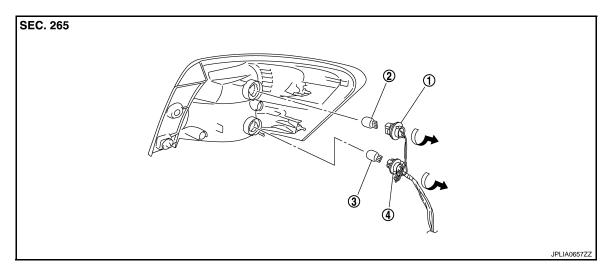


1. Seal packing

2. Rear combination lamp

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

DISASSEMBLY



- 1. Rear turn signal lamp bulb socket
- Stop/tail (side marker lamp) bulb socket
- 2. Rear turn signal lamp bulb
- 3. Stop/tail (side marker lamp) bulb

Removal and Installation

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CAUTION:

Disconnect the battery negative terminal or the fuse.

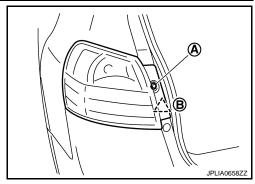
REMOVAL

- Remove the luggage side lower finisher. Refer to <u>INT-31, "Exploded View"</u>.
- 2. Disconnect rear combination lamp connector.

REAR COMBINATION LAMP

[HALOGEN TYPE] < ON-VEHICLE REPAIR >

- Remove rear combination lamp mounting bolts (A).
- 4. Turn up the back door weather strip, insert an appropriate tool between rear combination lamp and vehicles and remove a clip (B).
- 5. Pull the rear combination lamp toward rear of the vehicle. Remove the rear combination lamp.



INSTALLATION

Install in the reverse order of removal.

Replacement Е INFOID:0000000003050066

CAUTION:

Disconnect the battery negative terminal or the fuse.

STOP/TAIL (SIDE MARKER) LAMP BULB

- 1. Remove rear combination lamp. Refer to EXL-127, "Exploded View".
- 2. Rotate the stop/tail (side marker lamp) bulb socket counterclockwise, and unlock it.
- Remove bulb from the bulb socket.

REAR TURN SIGNAL LAMP BULB

- 1. Remove rear combination lamp. Refer to EXL-127, "Exploded View".
- 2. Rotate the rear turn signal lamp bulb socket counterclockwise, and unlock it.
- 3. Remove bulb from the bulb socket.

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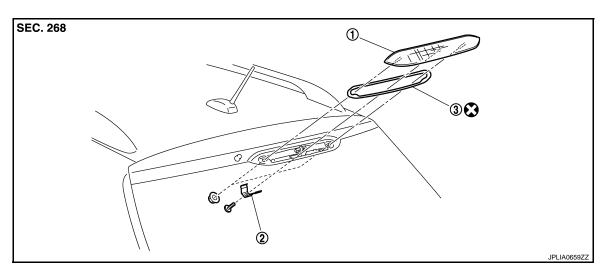
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HIGH-MOUNTED STOP LAMP

Exploded View



- 1. High-mounted stop lamp
- 2. Clip

3. Seal packing

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

Removal and Installation

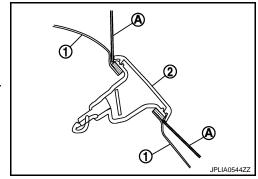
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CAUTION:

Disconnect battery negative terminal or remove the fuse.

REMOVAL

- 1. Remove the back door trim finisher upper. Refer to INT-34, "Exploded View".
- 2. Remove the mounting nuts and clips.
- Cut the seal packing by the thin plate (A).
 - 1. Back door panel
 - 2. High-mounted stop lamp
- 4. Pull the high-mounted stop lamp toward rear of the vehicle. Remove the high-mounted stop lamp.
- 5. Disconnect the high-mounted stop lamp connector.



INSTALLATION

Install in the reverse order of removal.

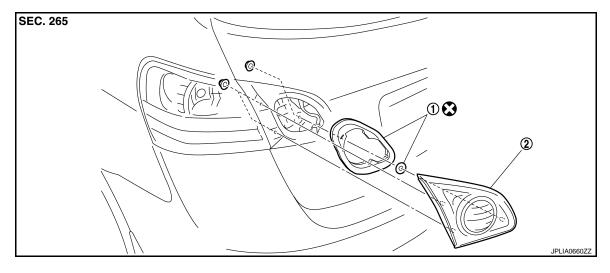
CAUTION:

Seal packing cannot be reused.

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BACK-UP LAMP

Exploded View



Seal packing

Back-up lamp

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

Removal and Installation

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- 1. Remove the back door mask. Refer to INT-34, "Exploded View".
- 2. Remove back-up lamp mounting nuts.
- 3. Disconnect back-up lamp connector. And remove the back-up lamp.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Seal packing cannot be reused.

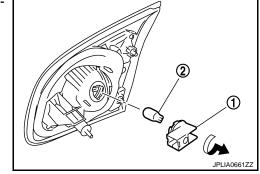
Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

BACK-UP LAMP BULB

- 1. Remove the back-up lamp. Refer to EXL-130, "Exploded View".
- Disconnect the connector, rotate the bulb socket (1) counterclockwise and unlock it.
- 3. Remove the bulb (2) from the socket.



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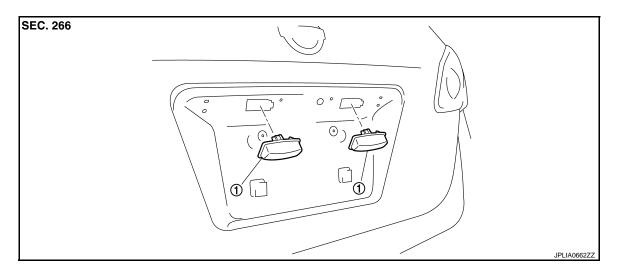
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Revision: 2008 January EXL-263 2008 Rogue

LICENSE PLATE LAMP

Exploded View



1. License plate lamp

Removal and Installation

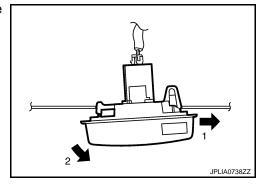
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CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- 1. Remove back door trim finisher lower. Refer to INT-34, "Exploded View".
- 2. Remove back door finisher.Refer to INT-34, "Exploded View".
- 3. Remove the license plate lamp in numerical order shown in the figure.
- 4. Disconnect the license plate lamp connector.



INSTALLATION

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

Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

LICENSE PLATE LAMP BULB

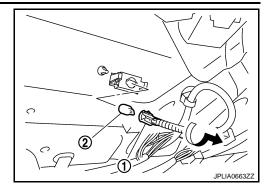
1. Remove back door trim finisher lower. Refer to INT-34, "Exploded View".

LICENSE PLATE LAMP

< ON-VEHICLE REPAIR >

[HALOGEN TYPE]

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



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SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[HALOGEN TYPE]

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

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Item		Туре	Wattage (W)
Front combination lamp	Headlamp (HI)	HB3	60
	Headlamp (LO)	H11	55
	Front turn signal/parking (side marker) lamp	S25 (Amber)	27/8
Front fog lamp		H11	55
Rear combination lamp	Stop/tail (side marker) lamp	W21/5W	21/5
	Rear turn signal lamp	W21W	21
	Back-up lamp	W16W	16
License plate lamp		W5W	5
High-mounted stop lamp		LED	_