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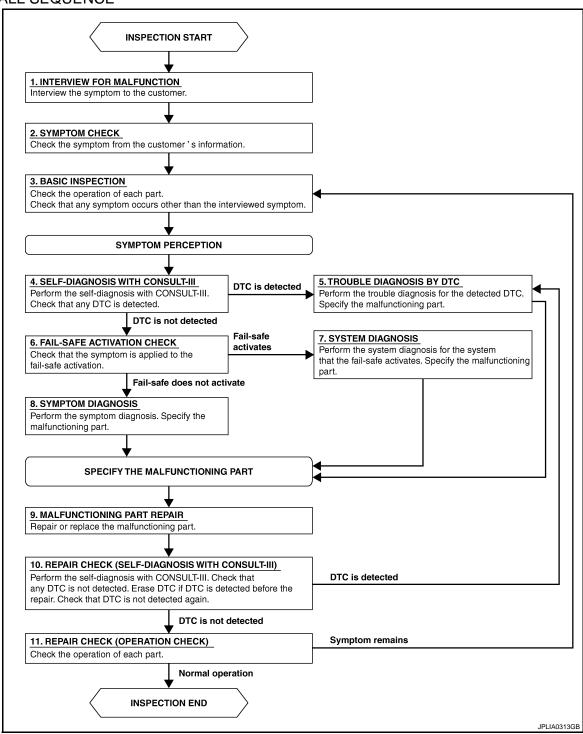
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BASIC INSPECTION

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.
>> 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 DEC.
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 OVETEM BLACKERS
/.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 PERMIT CHECK (OPERATION CHECK)
11.REPAIR CHECK (OPERATION CHECK)
Check the operation of each part. Does it operate normally?
YES >> INSPECTION END
NO OCTOR

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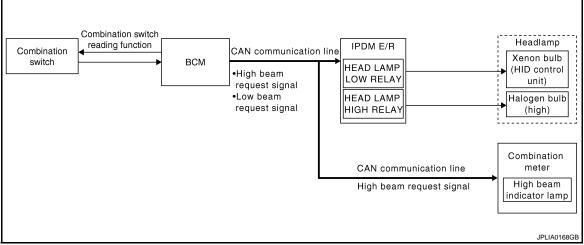
NO >> GO TO 3.

FUNCTION DIAGNOSIS

HEADLAMP SYSTEM

System Diagram

INFOID:0000000004230760



System Description

INFOID:0000000004230761

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

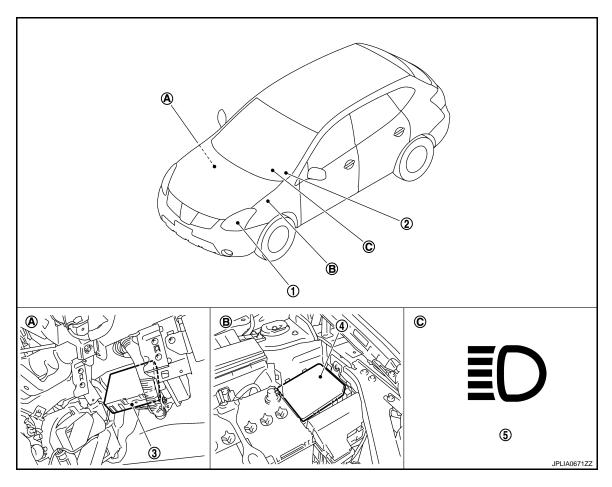
• BCM transmits the high beam request signal to IPDM E/R and the combination meter with CAN communication according to the headlamp (HI) ON condition.

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:0000000004230762



- 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:0000000004230763

	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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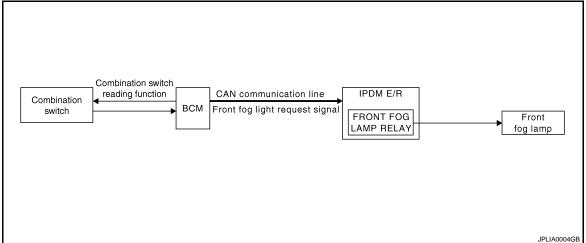
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FRONT FOG LAMP SYSTEM

System Diagram

INFOID:0000000004230764



System Description

INFOID:0000000004230765

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:0000000004230766

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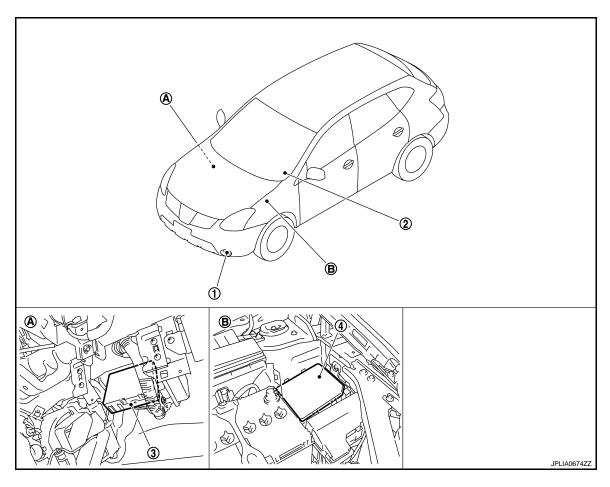
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- 1. Front fog lamp
- IPDM E/R
- A. Over the glove box
- 2. Combination switch
- 3. BCM
- B. Engine room (LH)

Component Description

INFOID:0000000004230767

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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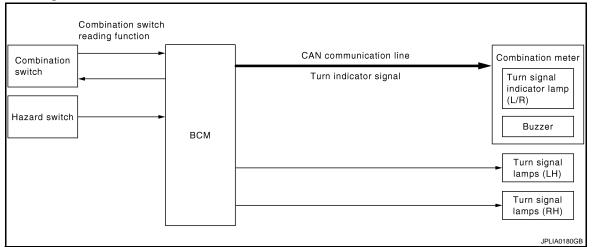
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EXL-11 Revision: 2008 August

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

System Diagram

INFOID:0000000004230768



System Description

INFOID:0000000004230769

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)

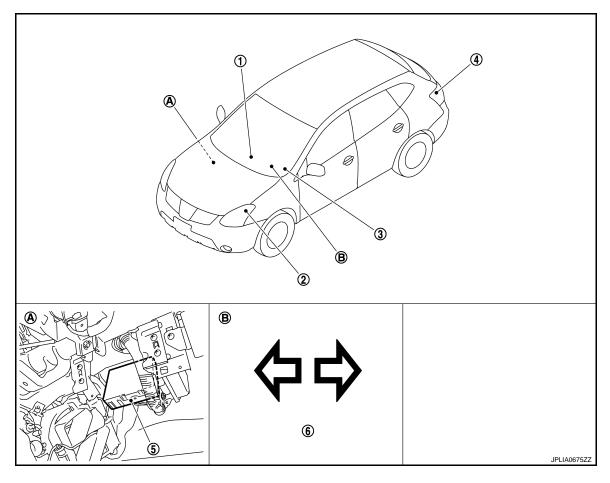
- BCM detects the turn signal lamp circuit status by the terminal current value.
- BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

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

Component Parts Location

INFOID:0000000004230770



- 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:0000000004230771

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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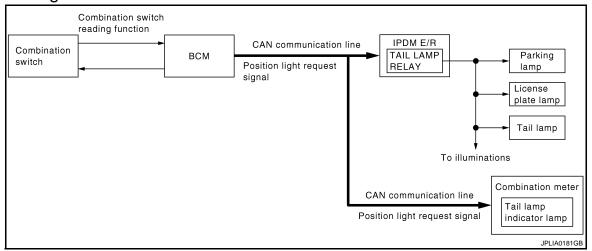
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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

System Diagram

INFOID:0000000004230772



System Description

INFOID:0000000004230773

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

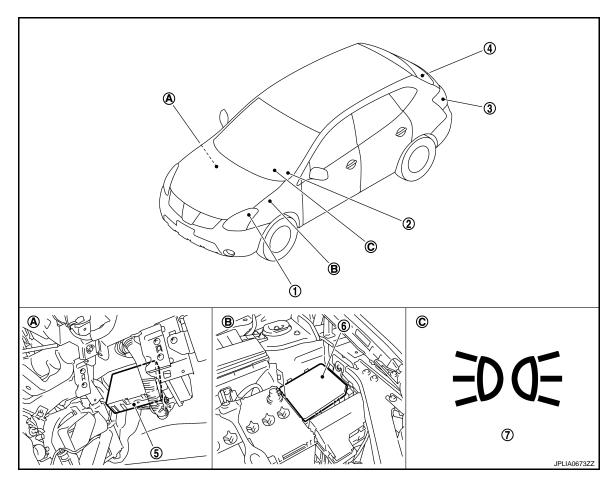
- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the position light request signal to IPDM E/R and the combination meter with CAN communication according to the ON/OFF condition of the parking, license plate and tail lamps.

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:0000000004230774



- 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:0000000004230775

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).

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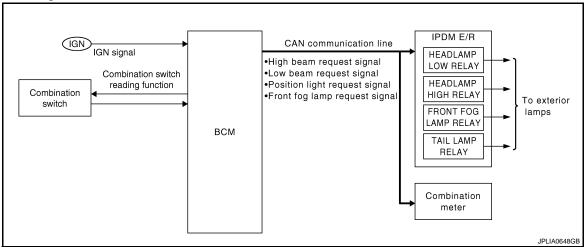
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EXTERIOR LAMP BATTERY SAVER SYSTEM

System Diagram

INFOID:0000000004230776



System Description

INFOID:0000000004230777

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.

EXTERIOR LAMP BATTERY SAVER SYSTEM

< FUNCTION DIAGNOSIS >

[XENON TYPE]

Component Parts Location

INFOID:0000000004230778

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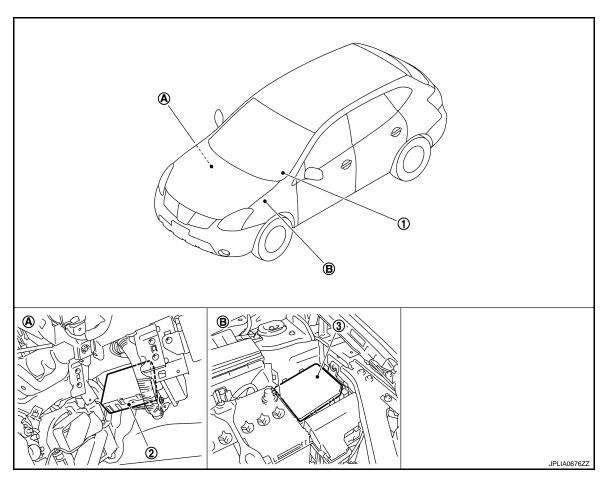
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- 1. Combination switch
- A. Over the glove box
- 2. BCM
- B. Engine room (LH)

3. IPDM E/R

Component Description

INFOID:0000000004230779

Part	Description
ВСМ	 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:0000000004539419

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

Civata	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)

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WORK SUPPORT

Service item	Setting item	Setting	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
BATTERT 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		

^{*:} Factory 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]	Fach quitab status that POM indeed from the combination quitab yearing for stars
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]	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: The item is indicated, but not monitored			
OPTICAL SENSOR [V]				

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 ROMINING LIGHT	Off	The item indicated, but not operate

FLASHER

FLASHER: CONSULT-III Function (BCM - FLASHER)

INFOID:0000000004230782

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 quitch condition that PCM judges from the combination quitch reading fur	
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	
	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:0000000004539421

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.

- Turn the ignition switch OFF.
- 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.

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 the 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.

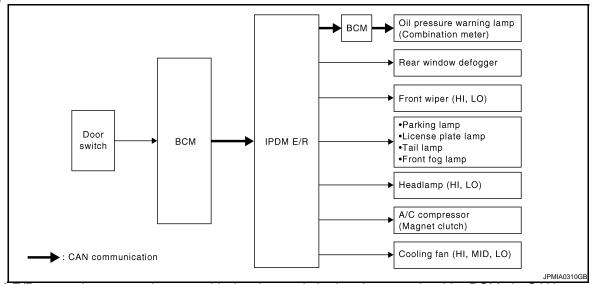
Operation sequence	Inspection location	Operation
А	Oil pressure warning lamp	Blinks continuously during operation of auto active test.
1	Rear window defogger	10 seconds
2	Front wiper	LO for 5 seconds → HI for 5 seconds
3	 Parking lamps License plate lamps Tail lamps Front fog lamps Headlamps HI (daytime 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:

^{*:} With daytime running light system

[XENON TYPE] < FUNCTION DIAGNOSIS >

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	
Headlamps HI (daytime running light operation) do	Perform auto active test. Do headlamps HI (daytime running light operation) operate?	YES	CAN communication signal between ECM and BCM CAN communication signal between combination meter and BCM BCM signal input circuit	
not 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	

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< FUNCTION DIAGNOSIS >

[XENON TYPE]

Symptom Inspection contents			Possible cause	
	Perform auto active test.	YES	Harness or connector between IPDM E/R and oil pressure switch Oil pressure switch IPDM E/R	
Oil pressure warning lamp does not operate	Does the oil pressure warning lamp blink?	NO	CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and 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:0000000004539422

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.
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.

< FUNCTION DIAGNOSIS >

[XENON TYPE]

Monitor Item [Unit]	MAIN SIGNALS	Description
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 stop position signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
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

Test item	Operation	Description	
REAR DEFOGGER	Off	OFF	
REAR DEFOGGER	On	Operates the rear window defogger relay.	
	Off	OFF	
	Lo	Operates the front wiper relay.	
	Hi	Operates the front wiper relay and front wiper high relay.	
	1	OFF	
MOTOR FAN	2	Operates the cooling fan relay (LO operation).	
	3	Operates the cooling fan relay (MID operation).	
	4	Operates the cooling fan relay (HI operation).	

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< FUNCTION DIAGNOSIS >

[XENON TYPE]

Test item	Operation	Description
Off TAIL EXTERNAL LAMPS Lo	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.
	Lo	Operates the headlamp low relay.
	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:0000000004539425

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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

1. Turn the ignition switch OFF.

Disconnect BCM connectors.

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and the ground.

BCM			Continuity
Connector	Connector Terminal		Continuity
M67 67			Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

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

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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
	К

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

(+)	(-)	Voltage	
IPDI	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 the harness or connector.

3. CHECK GROUND CIRCUIT

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

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

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

EXTERIOR LAMP FUSE

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[XENON TYPE]

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EXTERIOR LAMP FUSE

Description INFOID:000000004230787

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 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

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

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 LAMPS" 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

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

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

	Т	erminals	Test item		
(+)		(-)	iest item	Voltage (Approx.)	
IPDM E/R			EXTERNAL		
Cor	nnector	Terminal		LAMPS	
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

- 1. 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
Conne	ector	Terminal	Connector	Terminal	Continuity
RH	F12	22	E75	1	Existed
LH	LIZ	21	E72	1	LAISIEU

Does continuity exist?

YES >> GO TO 5.

HEADLAMP (HI) CIRCUIT

< COMPONENT DIAGNOSIS >

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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.

NO >> Replace IPDM E/R.

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	F12	22	Ground	Not existed
LH	LIZ	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 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
Con	nector	Terminal	Ground	Continuity
RH	E75	2	Ground	Existed
LH	E72	2		LXISIEU

Does continuity exist?

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

NO >> Repair the harnesses or connectors. **EXL**

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HEADLAMP (LO) CIRCUIT

Description INFOID:000000004230791

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:00000000004230792

1. CHECK HEADLAMP (LO) OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 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 LAMPS" 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:0000000004230793

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 LAMPS" of IPDM E/R active test item.
- With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

Terminals				Test item		
	(+)		(-)	163t Item	Voltage	
IPDM E/R			EXTERNAL	(Approx.)		
Conr	Connector Terminal			LAMPS		
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	Connector Terminal		Terminal	Continuity

HEADLAMP (LO) CIRCUIT

< COMPONENT DIAGNOSIS >

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RH		20	E74	1	
LH	E12	18	E71	1	Existed

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	Connector 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:000000004230794

OUTLINE

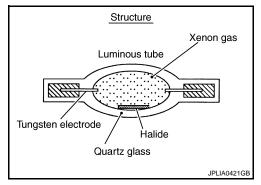
- The lamp light source is by the arch discharge by applying high voltage into the xenon gas-filled bulb instead
 of the halogen bulb filament.
- Sight becomes more natural and brighter because the amount of light are gained adequately and the color of light is sunshine-like white.
- The xenon bulb drops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

ILLUMINATION PRINCIPLE

- Discharging starts in high voltage pulse between bulb electrodes.
- 2. 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:0000000004230795

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]

YES >> Replace HID control unit.

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

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FRONT FOG LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

FRONT FOG LAMP CIRCUIT

Component Function Check

INFOID:0000000004230796

1. CHECK FRONT FOG LAMP OPERATION

®IPDM E/R AUTO ACTIVE TEST

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

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

Is the front fog lamp turned ON?

YES >> Front fog lamp circuit is normal.

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

Diagnosis Procedure

INFOID:0000000004230797

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 LAMPS" 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		LAMPS	
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
LXISIEU	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
Connector Terminal		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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PARKING LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

[XENON TYPE]

PARKING LAMP CIRCUIT

Component Function Check

INFOID:0000000004230798

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>.

Check that the parking lamp is turned ON.

(P)CONSULT-III ACTIVE TEST

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.

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

TAIL : Parking lamp ON
Off : Parking lamp OFF

Is the parking lamp turned ON?

YES >> Parking lamp circuit is normal.

NO >> Refer to EXL-38, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004230799

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		Not existed

Does continuity exist?

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

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

3.CHECK PARKING LAMP BULB

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 LAMPS" 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 (Approx.)
IPDM E/R			EXTERNAL		
Connector		Terminal		LAMPS	
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
LAISIEU	1	E27	38	L14	LH

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

6.CHECK PARKING LAMP GROUND OPEN CIRCUIT

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

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

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:000000004230800

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:0000000004230801

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:0000000004230802

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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$\overline{3}$.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	rminal Connector Te		Continuity
RH	M67	61	E46	3	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	EXISTEC

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 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	Glound	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:0000000004230803

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	Condition		Monitor status
HAZARD SW	Hazard switch	ON	On
		OFF	Off

Is the item status normal?

YES >> Hazard switch circuit is normal.

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

Diagnosis Procedure

INFOID:0000000004230804

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	Volto an (Amarou)	
ВС	CM		Hazard switch	Voltage (Approx.)	
Connector	Terminal		Tiazara 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.
- 3. 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:0000000004230805

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 LAMPS" 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:0000000004230806

1. CHECK TAIL LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Tail lamp	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.
- 3. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

	Terminals	Test item	_	
(-	+)	(-)	1631 116111	Voltage
IPDM E/R		EXTERNAL	(Approx.)	
Connector	Terminal		LAMPS	
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

1. 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	Ground	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:0000000004230807

1. CHECK LICENSE PLATE 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 license plate lamp is turned ON.

(P)CONSULT-III ACTIVE TEST

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

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

Is the license plate lamp turned ON?

YES >> License plate lamp circuit is normal.
NO >> Refer to EXL-46, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004230808

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 plate lamp		Continuity	
С	onnector	Terminal	Connector	Terminal	Continuity
RH	F14	37	D196	1	Existed
LH	L 14	37	D195	1	LXISIEU

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

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

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

	License plate	e lamp		Continuity
Connector		Terminal	Ground	Continuity
RH	D196	2	Giodila	Existed
LH	D195	2		LXISIEU

Does continuity exist?

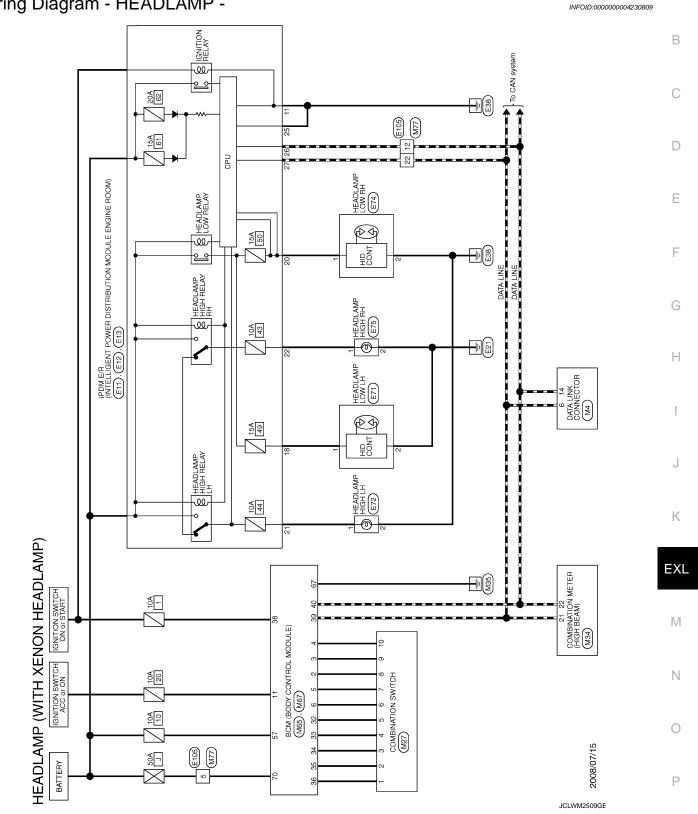
YES >> Replace the license plate lamp.

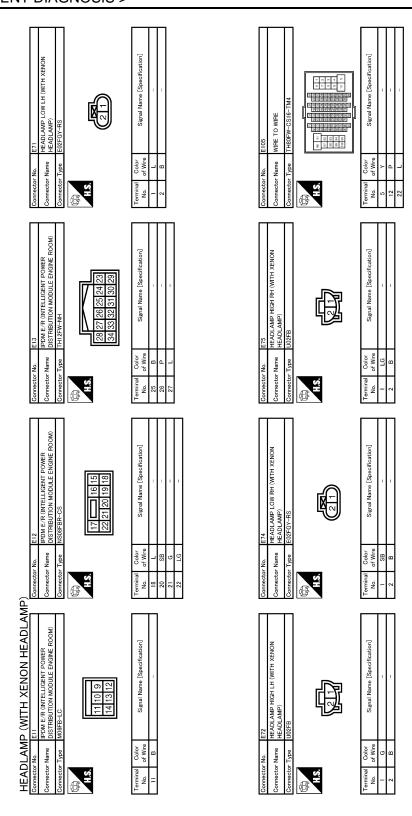
NO >> Repair the harnesses or connectors.

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HEADLAMP SYSTEM

Wiring Diagram - HEADLAMP -





JCLWM2510GE

Comector No. M77 Comector Name WIRE TO WIRE Corrector Type TH80MW-CS16-TM4 Terminal Color No. of Wive Signal Name (Specification) 22 P	B C
Connector No. MG4	E F G
Connector No. M27	J K
HEADLAMP (WITH XENON HEADLAMP) Connector Num MA Connector Num DATA LINK CONNECTOR Connector Type BD18FW Connector Type BD18FW Connector Type BD18FW Connector Type Connector Num Signal Name (Specification) Connector Num Con	M N O

Revision: 2008 August EXL-49 2009 Rogue

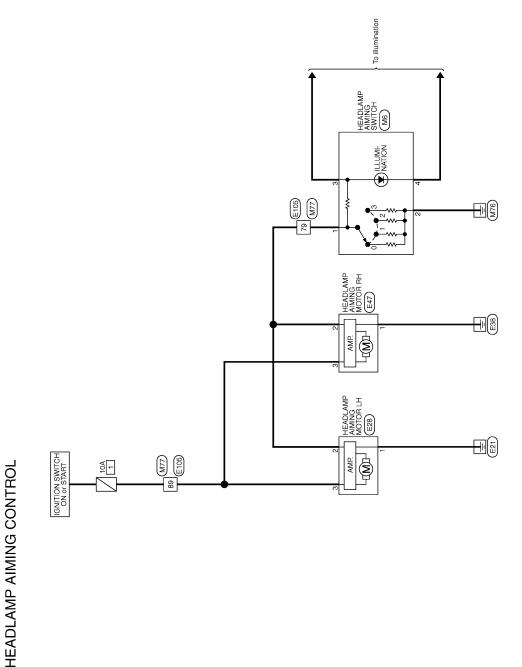
[XENON TYPE]

HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

Description INFOID:000000004230810

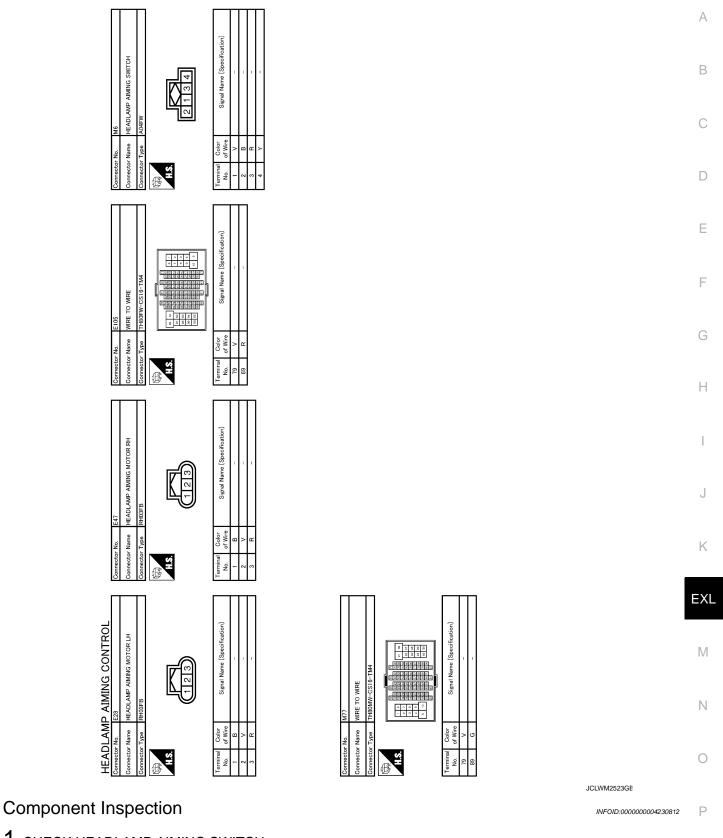
The headlamp levelizer adjusts the headlamp light axis upward and downward with the aiming motor integrated in the front combination lamp.

Wiring Diagram - HEADLAMP AIMING CONTROL SYSTEM (MANUAL) - INFOID:000000004230811



HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

[XENON TYPE] < COMPONENT DIAGNOSIS >



1. CHECK HEADLAMP AIMING SWITCH

Remove the headlamp aiming switch.

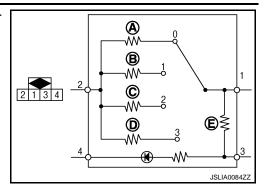
HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

< COMPONENT DIAGNOSIS >

[XENON TYPE]

Check the resistance among each headlamp aiming switch terminal.

<u>-</u>	aiming switch	Condition Switch position	Resistance (Approx.)
	2	0	Α: 160 Ω
		1	B: 249 Ω
1		2	C: 464 Ω
		3	D: 887 Ω
		_	E: 412 Ω



Is the measurement value normal?

YES >> Headlamp aiming switch is normal.

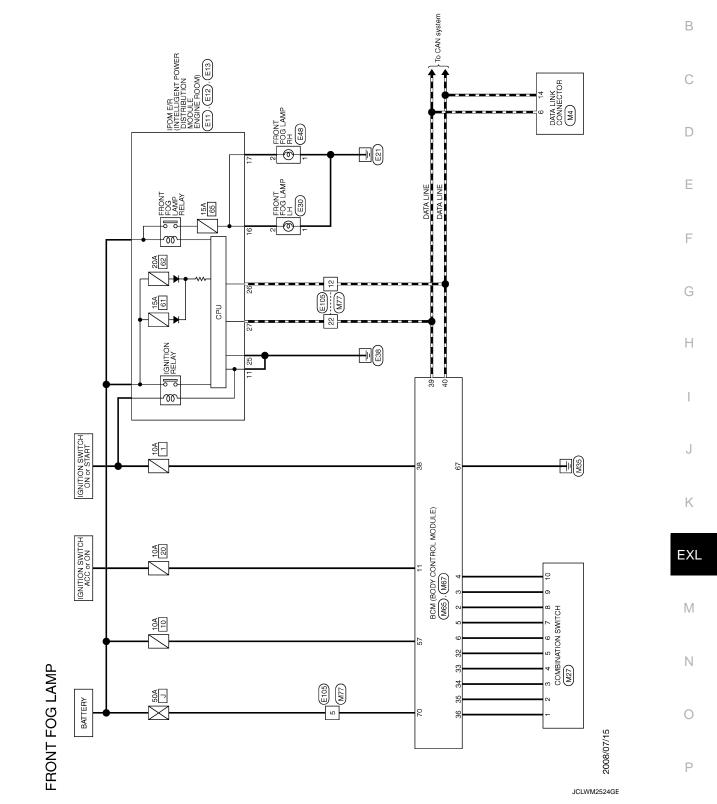
NO >> Replace the headlamp aiming switch.

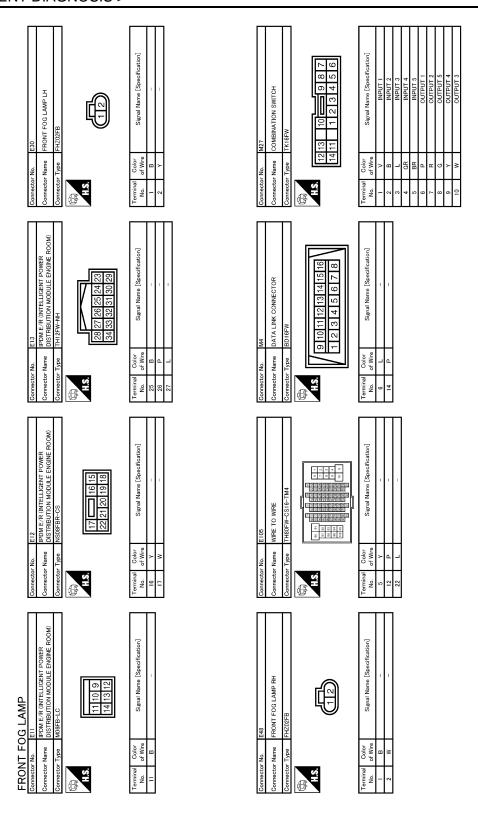
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FRONT FOG LAMP SYSTEM

Wiring Diagram - FRONT FOG LAMP -





JCLWM2525GE

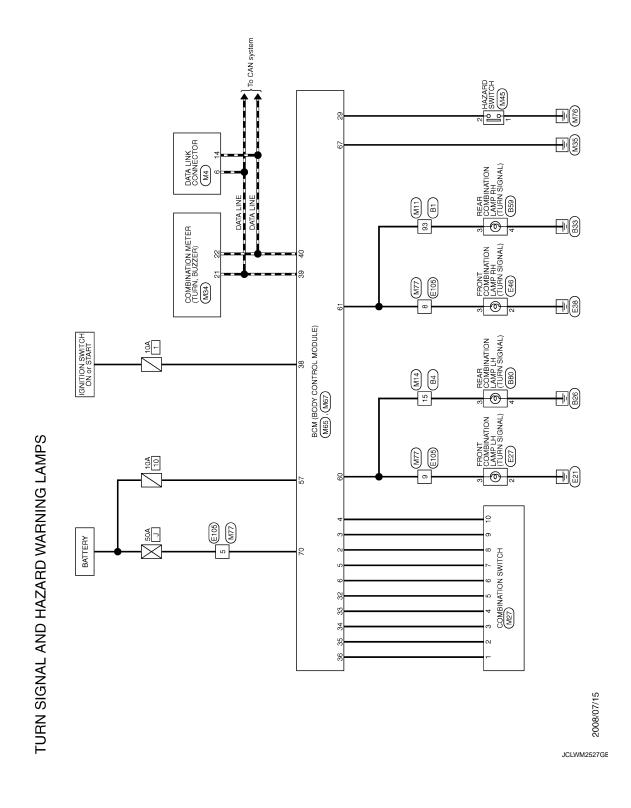
FRONT FOG LAMP SYSTEM

[Total Total		Α
WCS: IG-TTM4 WCS: IG-TTM4 Signal Name [Specification]		В
MA77 1.160 MW 1.00		С
Connector No. Connector Name Connector Type H.S. H.S. 12 P V 22 L 22 L		D
O. MODULE) (2) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S		Е
		F
N N N N N N N N N N		G
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_	K
		EXL
C C AMP		M
M65		Ν
Commetter Name Commetter Type Comm		0
	JCLWM2526GE	D

Revision: 2008 August EXL-55 2009 Rogue

Wiring Diagram - TURN AND HAZARD WARNING LAMPS -

INFOID:0000000004230814



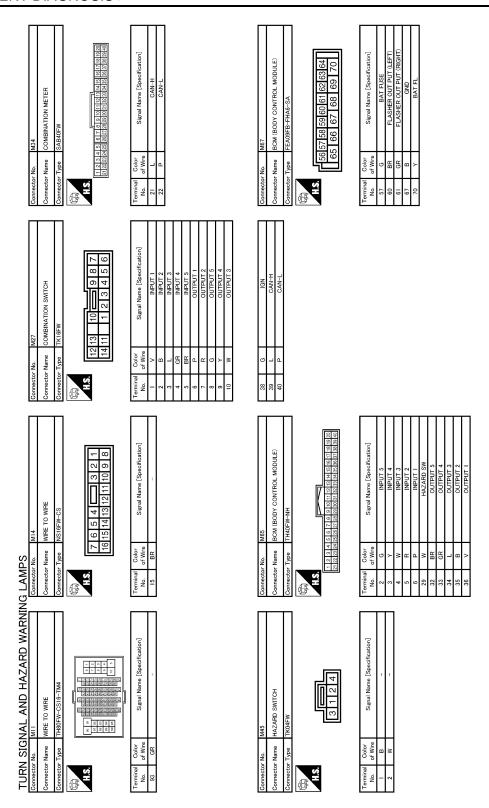
< COMPONENT DIAGNOSIS > [XENON TYPE]

Connector No. B80 Connector Name REAR COMBINATION LAMP LH	Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW Connector Type BD16FW Connector Type BD16FW Connector Type BD16FW Connector Type Connector	A B C
Connector No. 1839 Connector No. 1839 Connector Name REAR COMBINATION LAMP RH Connector Type NSGAMW-CS	Connector No. E105 Connector Name WRE TO WRE Connector Type TH80PW-CS16—TM4 Connector Type TH80PW-CS16—TM4 LAS EN	E F G
Connector No. B4 Connector No. B4 Connector No. B4 Connector No. B4 Connector Type NS16MM-CS	Connector No. E46 Connector Name PRONT COMBINATION LAMP RH Connector Type 203FGY Terminal Color Signal Name [Specification] 2 B B — — 3 GR	J K
TURN SIGNAL AND HAZARD WARNIN Connector Name WHE TO WIRE Connector Type TH60MM-CS16-TM4 Terminal Color Signal Name (Specification) Signal Name (Specification)	Connector No. E27 Connector Name PRONT COMBINATION LAMP LH Connector Type 203FGY Terminal Color Signal Name [Specification] 2 B B 3 BR	M N O JCLWM2528GE
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Revision: 2008 August EXL-57 2009 Rogue

< COMPONENT DIAGNOSIS >

[XENON TYPE]



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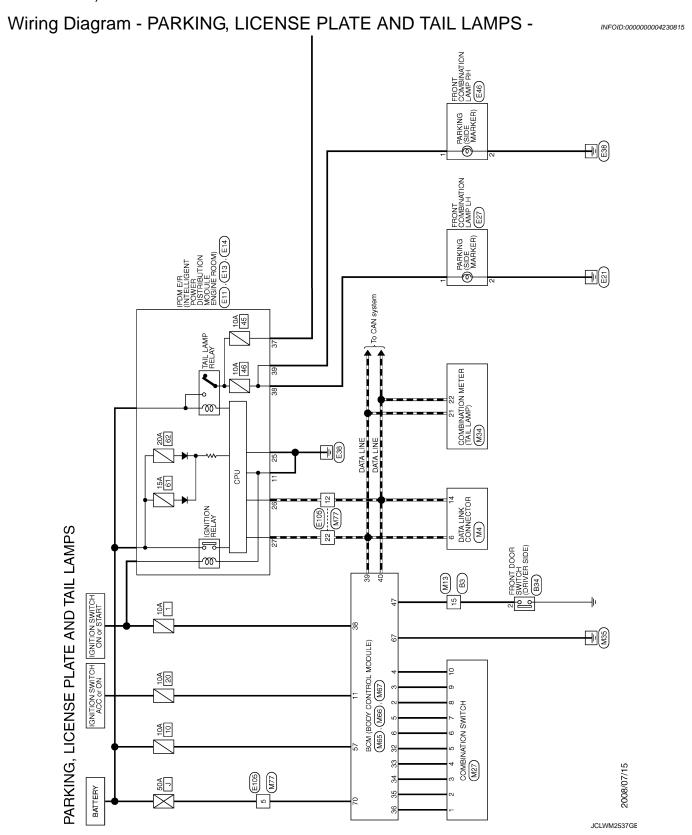
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TURN SIGNAL AND HAZARD WARNING LAMPS	Connector No. M77	Connector Name WIRE TO WIRE	Connector Type TH80MW-CS16-TM4	8 10 S =	minal Color Signal Name [Specification]	- × 2	8 GR	
TURN	Connector	Connector	Connector	H.S.	Terminal No.	2	œ	

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM



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< COMPONENT DIAGNOSIS >

[XENON TYPE]

Connector No. B54		NSIZMW-CS NSIZWW-CS NSIZ	Signal Name (Specification) Terminal Color Signal Name (Specification) 1 Y - 6 R - 6 R -	Connector No. B79	Signal Name [Specification] No. of Wire Signal Name [Specification]
AMPS Connector No. B11 Connector No. B34	ne WIRE TO WIRE Connector Name	Connector Type TH80MW-CS16-TM4 Connector Type A03FW H.S.	Color Signal Name (Specification) No. of Wire No. of W	Connector No. B59 Connector No. B77 Connector Name REAR COMBINATION LAMP RH Connector Name WIRE TO WIRE CONNECTS Connector Type NSD4MW-CS Connector Type NSIDMW-CS MAS A121 A12	Golor Signal Name [Specification] No of Wire of Wire
PARKING, LICENSE PLATE AND TAIL LAMPS Connector No. 183	WIRE TO WIRE	Connector Type TH32MW-NH Connector Type TH32MW-NH Connector Type TH32MW-NH Connector Type TH32MW-NH TH31819202112222445586272869903132	Terminal Color Signal Name (Specification) No. 15	Connector No. B55 Connector Name Connector Type WRIZEW-CS Connector Type Connector Type To 4	Terminal Color Signal Name [Specification] Terminal No. of Wire No. No. O O O O O O O O O

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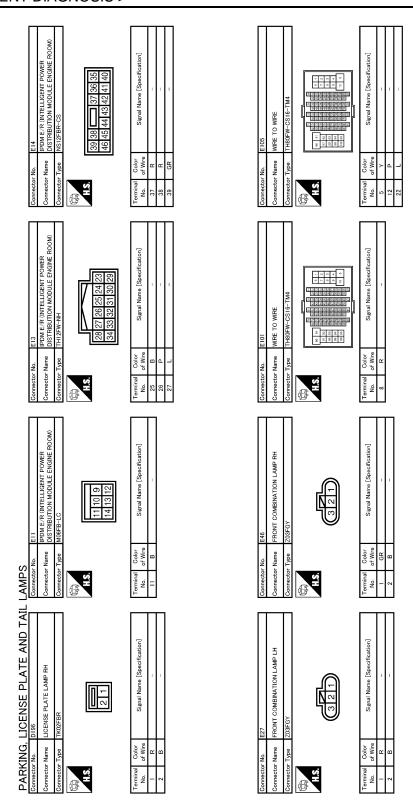
< COMPONENT DIAGNOSIS > [XENON TYPE]

Connector No. D157 Connector Name WIRE TO WIRE Connector Type NS10FW-CS 4 3 2 1 10 9 8 7 6 5	Terminal Color No. of Wire 6 R. — — — — — — — — — — — — — — — — — —	Connector No. D195 Connector Name LICENSE PLATE LAMP LH Connector Type TKOZFBR H.S.	Terminal Color Signal Name [Specification] No. of Wire		A B C
Connector No. D152 Connector Name WIRE TO WIRE Connector Type MO2FW-GY-LC H.S.	Terminal Color Signal Name [Specification] 2 B	Connector No. D182 Connector Name WIRE TO WIRE Connector Type M02MW-GY-LC 14.S.	Terninal Color Signal Name [Specification] 2 B		E F G
CAMPS Connector No.	Terminal Color No. Of Wire Signal Name [Specification] 2 R	Connector No. D181 Connector Name WIRE TO WIRE Connector Type NSOBMBR-CS H.S. 1 2	Terminal Color No. of Wire 2 R		J K
PARKING, LICENSE PLATE AND TAIL Connector Name REAR COMBINATION LAMP LH Connector Type NSO4MW-CS H.S.	Terminal Golor No. Glor Signal Name [Specification] No.	Connector No. D159 Connector Name WIRE TO WIRE Connector Type M04FW-LC H.S. Z 1 4 3	Terminal Color No. of Wire 3 B Signal Name [Specification]	JCLWM2540GE	M N O

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< COMPONENT DIAGNOSIS >

[XENON TYPE]

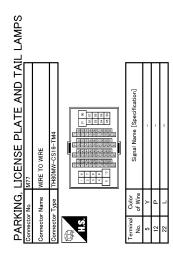


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< COMPONENT DIAGNOSIS > [XENON TYPE]

ETER TECONOMISMOST TO SOLIS SO	Signal Name [Specification] CAN+H CAN+L	9-SA 0-61-62-63-64 68-69-70	Signal Name [Specification] BAT FUSE GND BAT FL		АВ
Connector No. M34 Connector Type SAB40FW Connector Type SAB40FW 12 3 4 15 9 7 6 9 10 11 12 13 14 15 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 13 14 13 9 7 18 9 10 11 12 9	Terminal Color Signal N Of Wire Signal N 21 L	M67 M67 Connector No. M67 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEA09FB-FHA6-SA M65 M65 M65 M67 M68 M69 TO M65 M65 M69	Color Color Signal N Color Signal N Color Color		C
тон 1 9 8 7 4 5 6	Signal Name (Specification) INPUT 1 INPUT 2 INPUT 3 INPUT 3 INPUT 5 OUTPUT 1 OUTPUT 2 OUTPUT 3 OUTPUT 3	70L MODULE)	Signal Name [Specification] DR SW DR		Е
Connector No. M27 Connector Name COMBINATION SWITCH Connector Type TK16FW 12 13 10 9 9 14 11 1 2 3 4	Odlor of Wre Od B B B B B B B B B B B B B B B B B B	Connector No. M66 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEA09FW-FHA6-SA \$\tilde{\Pi}\$ \$\til	Octor of Wife W		F G
Connector Nor	Terminal No. 1 1 2 2 3 3 3 5 5 6 6 6 6 9 9 10 10	Connector No.	Terminal No. 47		Н
-NH 10 9 8 7 6 5 4 3 2 1 26 25 24 23 22 21 20 19 18 17	Signal Name [Specification]	IGN CAN-H CAN-L			l J
Connector No. M13 Connector Name WIRE TO WIRE Connector Type TH22FW-NH H.S. 1615 1413 1211 1019 8 22 51130 26 22 7 26 25 24	Terminal Color No. of Wire 15 W	38 C C 40 P P			K
PARKING, LICENSE PLATE AND TAIL Connector No. M4 Connector Type BD18FW Connector Type BD	Signal Name [Specification]	MBS BCM (BODY CONTROL MODULE) TH40FW-NH TH6FW-NH TH6FW-NH TH8FW TH	Name [Specification] Name [Specification] NaDIT 6 NaDIT 1 NaDIT 1		EXL
LICENSE PLATI M4 DATA LINK CONNECTOR BD16FW 9 10 11 12 13 14 15 6 7	Sign	M65 BCM (BODY C TH40FW-NH TH6FW-NH S S S S S S S S S S S S S S S S S S S	Sign.		Ν
PARKING, Connector No. Connector Type	Terminal Color No. of Wire 6 6 14 14 14 14 14 14	Connector No. M65 Connector Name BCM (BO) Connector Type TH40FW-	Terminal Color	IONANO: 1005	0
				JCLWM2542GE	Р

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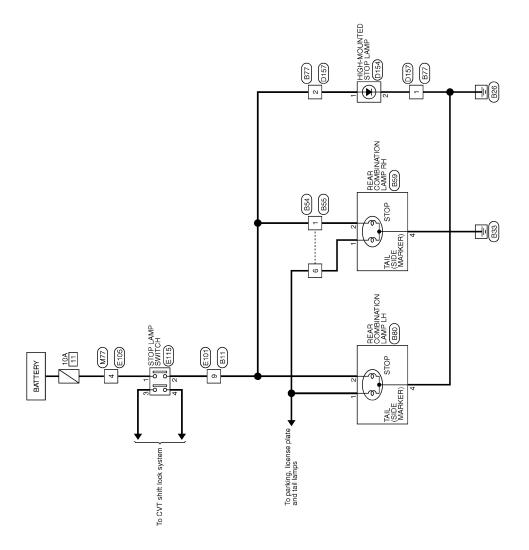


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STOP LAMP

Wiring Diagram - STOP LAMP -

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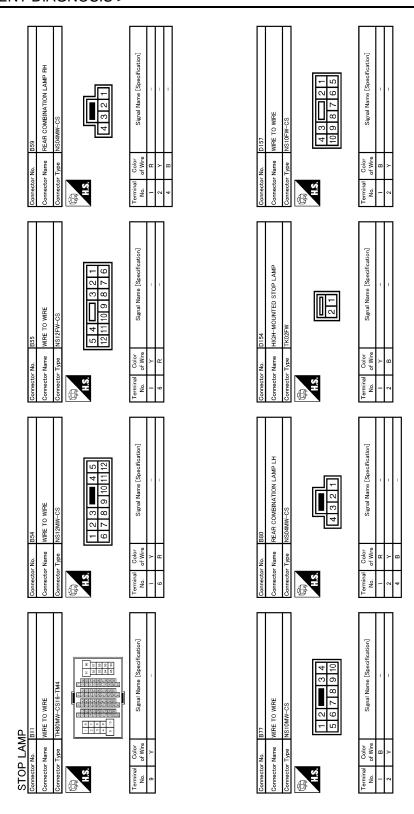
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STOP LAMP



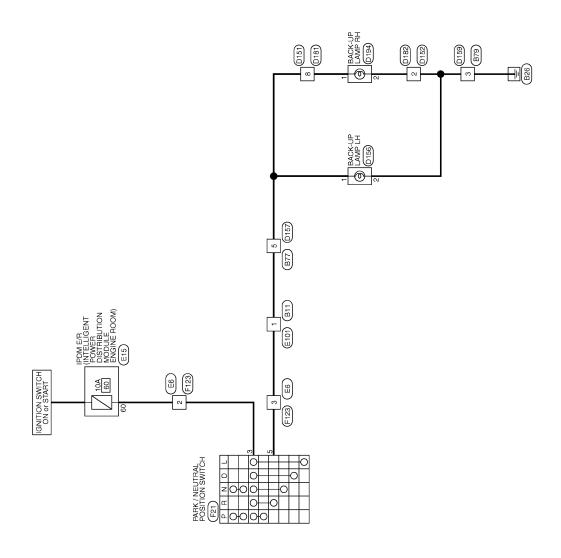
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	А
WINE CS16-TM4 Signal Name (Specification)	В
MA77 MRE TO THE BOWN.	С
Connector No. Connector Name Connector Type H.S. H.S. A V V	D
offication)	Е
Signal Name (Specification)	F
No.	G
Connector Connector Connector A. A	Н
WIPE CSIG-TM4 Signal Name (Specification)	I
Wife TO WRE TH80PW-CS16-TM4 TH80PW-CS16-TM4 I was a second to the seco	J
Connector No. E Connector Type Terminal Color No. of Wire A V V	K
	EXL
WIRE CS16-TM4 Signal Name (Specification)	M
M	N
STOP LAMP Connector None WIRE Connector Type II-18 Terminal Color No. Of Wire 9 Y	0
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BACK-UP LAMP

Wiring Diagram - BUCK-UP LAMP -

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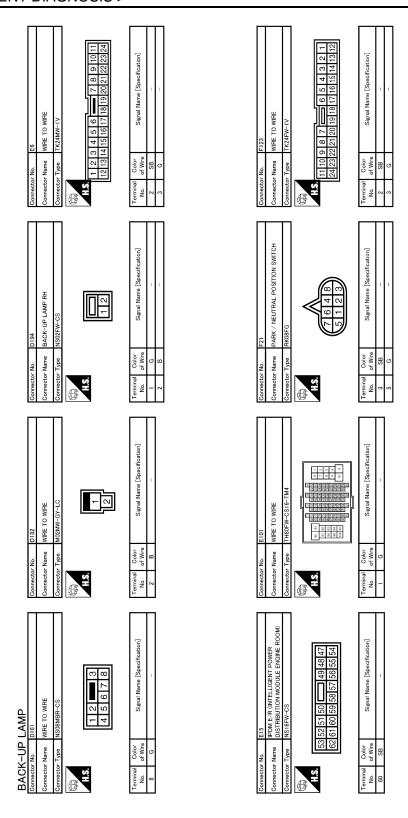


BACK-UP LAMP

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WIRE FCS 7 6 5 4 Signal Name [Speerification]	WIRE 2 1 4 3 Signal Name (Specification)	АВ
Connector No. D151 Connector Name WRE TO WRE Connector Type NS08FBR-CS H.S. 3	Connector No. D159 Connector Name WIRE TO WIRE Connector Type MO4FW-LC Terminal Color No. of Wire 3 B	C
peoification]	Procification	E
MAMW-LC MAMMY-LC Signal Name [Specification]	Name (S)	F
Commettor No.	Connector No. D157 Connector Name WRE TO WIF Connector Type NSIGNY-CS H.S. 4 3 [10 9 8] No. of Wire Sign	G H
CS	CS TIE Signal Name (Specification)	I
Connector No. B77	Connector No. D156 Connector Name BACK-UP LAMP LH Connector Type NS72FTW-CS ALS Terminal Color No. of Wire 1 B T	J K
Soffice to 1	ooffication]	EXL
WIRE TO WIRE THROMW-CS16-TM4 THROMW-CS16-TM4 THROMW-SS16-TM4 Signal Name (Specification)	WIRE TO WIRE MOZEW-GY-LC Sigrial Name [Specification]	M
BACK-UP LAMP Connector No. Connector Type Terminal Color No. O Wire S. To Wire S. S. S. S. S. S. S. S. S. S.	Connector No. Of Connector Name M. Connector Type M. Connector Type M. Connector Type M. Color No. of Wire 2 B	0
		JCLWM2535GE



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ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ICNI ONI 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
KEY ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK CW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL LINI OCK CW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOD OW DD	Driver's door closed	Off
DOOR SW-DR	Driver's door opened	On
DOOD CW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD OW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD CW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DACK DOOD OW	Back door closed	Off
BACK DOOR SW	Back door opened	On
KEV OVI 1 K OW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CVI LINI CW	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEVI FOO I OOK	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
KEVI ECC LINII OCK	"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
L KEY LINI OCK	"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
ACC ON SW	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LIGHT SW 4ST	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

< ECU DIAGNOSIS >

[XENON TYPE]

Monitor Item	Condition	Value/Status
DUOM F OW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
VEVI ESS DANIO	PANIC button of key fob is not pressed	Off
KEYLESS PANIC	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
DAE I CA TIMI CA	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
DICE IZEED LINIUZ	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
LI DEAM CM	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
LIEAD LAMB CW C	Lighting switch OFF	Off
HEAD LAMP 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
FASSING SW	Lighting switch PASS	On
FR FOG SW	Front fog lamp switch OFF	Off
FR FOG 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
TURIN SIGNAL K	Turn signal switch RH	On
TURN SIGNAL L	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
ENCINE DUN	Engine stopped	Off
ENGINE RUN	Engine running	On
DICD CVV	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
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
IGN SW CAN	Ignition switch OFF or ACC	Off
IGIN SW CAIN	Ignition switch ON	On
ED WIDED LI	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
ED WIDED LOW	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On

< ECU DIAGNOSIS > [XENON TYPE]

Monitor Item	Condition	Value/Status
FR WIPER INT	Front wiper switch OFF	Off
FR WIFER IN	Front wiper switch INT	On
FR WASHER SW	Front washer switch OFF	Off
IN WASHEN SW	Front washer switch ON	On
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
R WIPER STOP	Any position other than front wiper stop position	Off
-K WIFER STOP	Front wiper stop position	On
/EHICLE SPEED	While driving	Equivalent to speedometer reading
RR WIPER ON	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
DD WIDED INT	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 SW	Hazard switch OFF	Off
	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
	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
-KEY PW DWN	UNLOCK button of Intelligent Key is not pressed	Off
-NETT W DWN	UNLOCK button of Intelligent Key is pressed and held	On
-KEY PANIC	PANIC button of Intelligent Key is not pressed	Off
-KET PAINIC	PANIC button of Intelligent Key is pressed	On
PUSH SW	Return to ignition switch to "LOCK" position	Off
OSH SW	Press ignition switch	On
TONIC ODNID OW	When back door opener switch is not pressed	Off
TRNK OPNR SW	When back door opener switch is pressed	On
FRUNK 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]

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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	IR PRESS RL Ignition switch ON (Only when the signal from the transmitter is received)				
ID REGST FL1	ID of front LH tire transmitter is registered	Done			
ID REGGI FLI	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 REGST RL1	ID of rear LH tire transmitter is registered	Done			
ID REGST RET	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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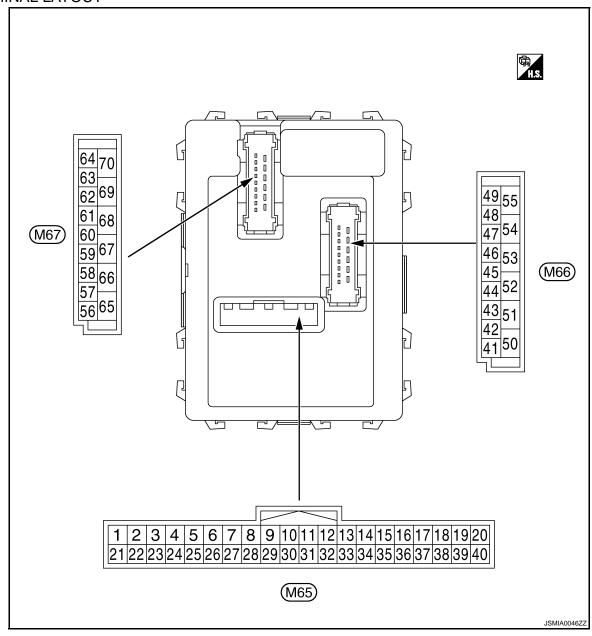
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TERMINAL LAYOUT



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-27, "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 Diagram".

Terminal No. (Wire color)		Description				Value	
		Signal name	Input/	Condition		(Approx.)	
+	_	Signarname	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 > [XENON TYPE]

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	0 V
				Turn signal switch RH		
					Lighting switch HI	(V) 15
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 1ST	10 5 0 +-10ms PKIB4959J 1.0 V
(6)					Lighting switch 2ND	(V) 15 10 5 0 ++10ms PKIB4953J 2.0 V
					All switch OFF	0 V
		Combination switch INPUT 4	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch LH	
					Lighting switch PASS	(V) 15
3 (Y)	Ground				Lighting switch 2ND	10 0 0 +-10ms PKIB4959J 1.0 V
(Y)					Front fog lamp switch ON	(V) 15 10 5 0 ++10ms PKIB4955J 0.8 V
					All switch OFF	0 V
					Front wiper switch LO	
				Combination	Front wiper switch MIST	(V) 15
4 (W) G	Ground	Combination switch INPUT 3	Input	switch (Wiper intermittent dial 4)	Front wiper switch INT	10 5 0 +-10ms PKIB4959J 1.0 V

< ECU DIAGNOSIS > [XENON TYPE]

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	(V) 15
					Rear washer ON (Wiper intermittent dial 4)	10 5
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 + 10ms PKIB4959J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 +-10ms PKIB4955J
					All switch OFF	0.8 V 0 V
		Combination switch INPUT 1	Input	Combination switch	(Wiper intermittent dial 4) Front wiper switch HI	
					(Wiper intermittent dial 4) Rear wiper switch INT	(V) 15 10
					(Wiper intermittent dial 4)	5
					Wiper intermittent dial 3 (All switch OFF)	+ +10ms PKIB4959J
6 (P) G	Ground				Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2	(V) 15 10 5 0 +-10ms PKIB4952J 1.7 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0
						PKIB4955J 0.8 V

[XENON TYPE]

	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) 10 5 0 → 10ms JPMIA0587GB 8.0 - 8.5 V
					LOCK position	0 V
9		lanut	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 (SB)	Ground	Rear window defog- ger switch	Input	Rear window	Not pressed	Battery voltage
-		ger switch		defogger switch	Pressed	0 V
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch O		0 V Battery voltage
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(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

< ECU DIAGNOSIS > [XENON TYPE]

	nal No. e color)	Description			Condition	Value	A
+	-	Signal name	Input/ Output		Condition	(Approx.)	
15 [*] (O)	Ground	Tire pressure warning check switch	Input	Ignition switch OFF		(V) ₁₅ 10 5 0 3 1.5 V	
18 [*] (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 [*] (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	ŀ
						NOTE: The wave form changes according to signal-receiving condition.	
20 [*] (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V	ŀ
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) ₁₅ 10 5 0 ***2ms JPMIA0589GB	
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	The wave form changes according to signal-receiving condition. Battery voltage	(

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< ECU DIAGNOSIS > [XENON TYPE]

	nal No.	Description	1			Value
+ (VVire	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 JPMIA0590GB
					OFF	12.0 V Battery voltage
25 (BR)	Ground	Immobilizer anten- na signal (Rx, Tx)	Input/ Output	Ignition switch O		Battery voltage
				Ignition switch OFF		
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) 15 10 5 0 JPMIA0591GB 1.6 V
					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 JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Crownel	Hozord oviteb	ln=:-4	Hozord switch	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)	0.54114	switch		opener switch	Pressed	0 V

[XENON TYPE] < ECU DIAGNOSIS >

Terminal No. (Wire color)		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)	
					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	0 + 10ms PKIB4956J	
					Wiper intermittent dial 6Wiper intermittent dial 7	1.0 V	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0	
33		Combination switch		Combination		PKIB4960J	
(GR)	Ground	OUTPUT 4	Output	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V)	
					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	

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< ECU DIAGNOSIS >

[XENON TYPE]

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	value (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
		Combination switch OUTPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
35 (B)	Ground				Lighting switch 2ND	(V) 15
					Lighting switch PASS	
					Front wiper switch INT	10 5 0
					Front wiper switch HI	PKIB4958J
00				Combination	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
36 (V)	Ground	Combination switch OUTPUT 1	Output	switch (Wiper intermit-	Turn signal switch RH	
				tent dial 4)	Turn signal switch LH	(V) 15 10 5 0
					Front wiper switch LO (Front wiper switch MIST)	
					Front washer switch ON	+ +10ms PKIB4958J
						1.2 V

< ECU DIAGNOSIS > [XENON TYPE]

	nal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
37	Ground	Key switch	Input	Insert mechanicader	al key into ignition key cylin-	Battery voltage	
(LG)	Glound	Rey Switch	iliput	Remove mechai cylinder	nical key from ignition key	0 V	
38	Ground	Ignition switch ON	Input	Ignition switch C		0 V	
(G)			Input/	Ignition switch C	N or START	Battery voltage	
39 (L)	Ground	CAN-H	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 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	ŎN	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	
					LOCK position	1.6 V	
						(V) ₁₅	
46 (BR)	Ground	Door lock and unlock d switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	5 0 + 10ms	
						JPMIA0591GB 1.6 V	
					UNLOCK position	0 V	

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< ECU DIAGNOSIS >

[XENON TYPE]

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
47 (W)	Ground	Ground Driver door switch		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	Ground	Back door lamp con-	Output	Back door lamp switch DOOR	Back door is closed (Back door lamp turns OFF)	Battery voltage
(L)	Glound	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)	Glound	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)		,		ON	Rear wiper switch ON	Battery voltage
56		Interior room lamp		After passing the saver operation t	interior room lamp battery ime	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 OFF		Battery voltage
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Giourid	LOCK		Dilver door	Other then UNLOCK (Actuator is not activated)	0 V

< ECU DIAGNOSIS > [XENON TYPE]

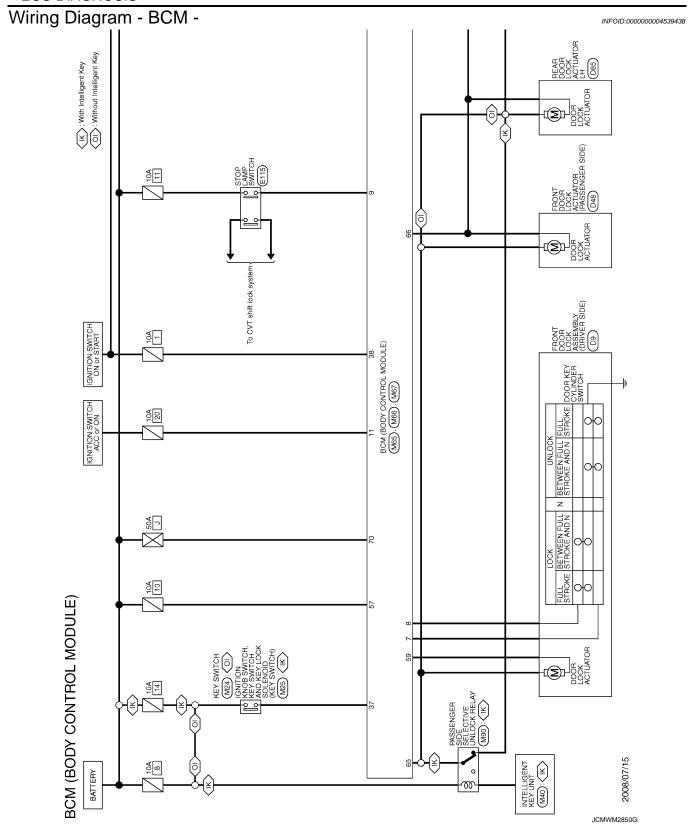
Terminal No. (Wire color)		Description				Value	
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					Turn signal switch OFF	0 V	В
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 PKIC6370E 6.0 V	C
					Turn signal switch OFF	0 V	Е
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s 1s PKIC6370E	F
63		Interior room lamp		Interior room	OFF	Battery voltage	Н
(R)	Ground	timer control	Output	lamp	ON	0 V	П
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage	I
(V)	Croana	All doors Eggit	Output	7 til doors	Other then LOCK (Actuator is not activated)	0 V	
66	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage	J
(G)	Giodila	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V	K
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	EX
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage	M
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	1 4 1

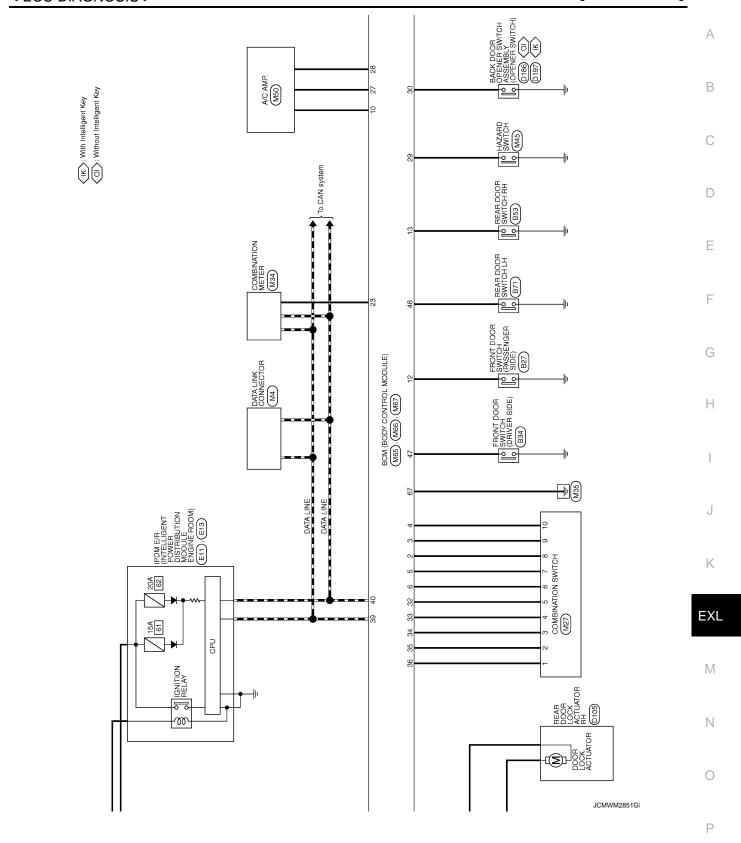
^{*:} Except for Mexico

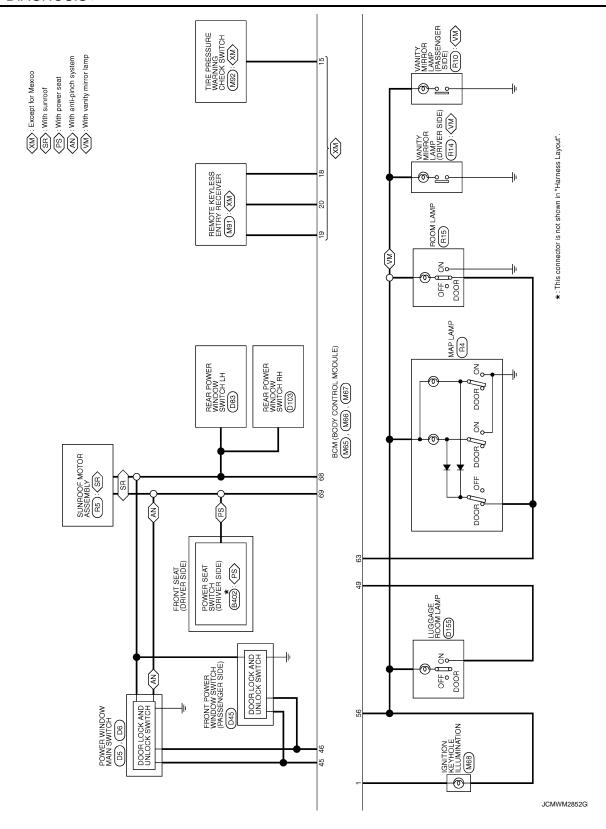
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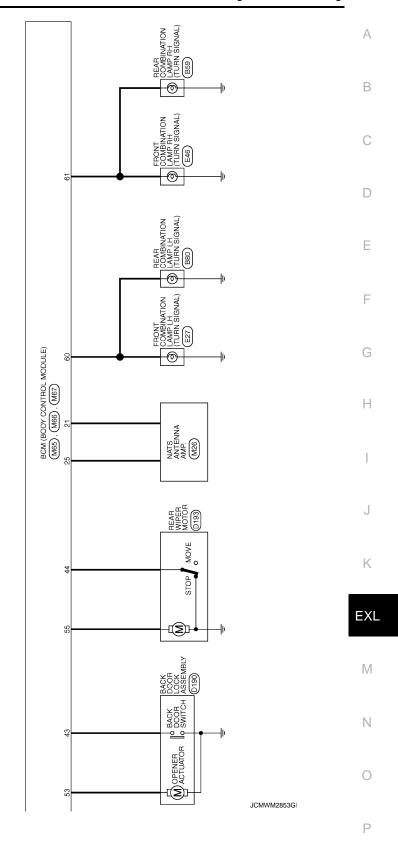
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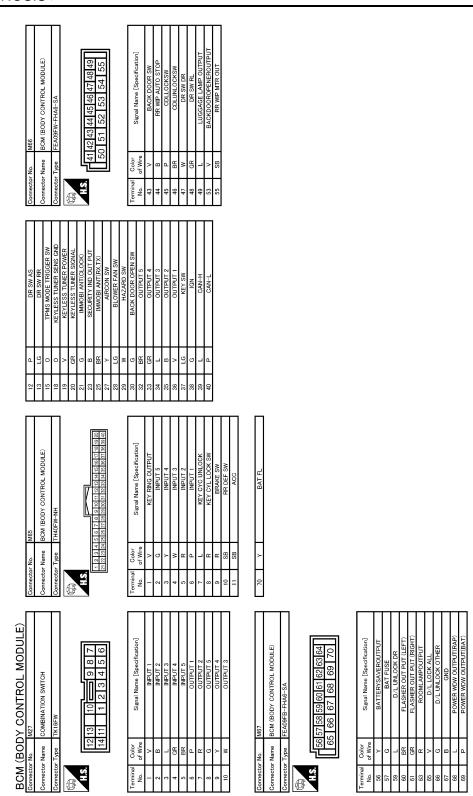








2009 Rogue



JCMWM2854G

Fail-safe

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position 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]

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- Pass more than 1 minute after the rear wiper stop.
- Turn the 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

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

Priority	DTC	
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	
	C1711: [NO DATA] RL	
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	
	C1715: [CHECKSUM ERR] RL	
3	C1716: [PRESS DATA ERR] FL	
	C1717: [PRESS DATA ERR] FR	
	C1718: [PRESS DATA ERR] RR	
	C1719: [PRESS DATA ERR] RL	
	C1720: [CODE ERR] FL	
	C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR	
	C1723: [CODE ERR] RL	
	C1724: [BATT VOLT LOW] FL	
	C1725: [BATT VOLT LOW] FR	E
	C1726: [BATT VOLT LOW] RR	
	C1727: [BATT VOLT LOW] RL	
	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.

CONSULT display	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	-	BCS-35

< ECU DIAGNOSIS > [XENON TYPE]

CONSULT display	Tire pressure monitor warning lamp ON	Reference		
C1704: LOW PRESSURE FL	×			
C1705: LOW PRESSURE FR	×	VAIT 4.5		
C1706: LOW PRESSURE RR	×	<u>WT-15</u>		
C1707: LOW PRESSURE RL	×			
C1708: [NO DATA] FL	×			
C1709: [NO DATA] FR	×	VA/T 4.7		
C1710: [NO DATA] RR	×	<u>WT-17</u>		
C1711: [NO DATA] RL	×			
C1712: [CHECKSUM ERR] FL	×			
C1713: [CHECKSUM ERR] FR	×	M/T 00		
C1714: [CHECKSUM ERR] RR	×	<u>WT-20</u>		
C1715: [CHECKSUM ERR] RL	×			
C1716: [PRESS DATA ERR] FL	×			
C1717: [PRESS DATA ERR] FR	×	WT 22		
C1718: [PRESS DATA ERR] RR	×	<u>WT-23</u>		
C1719: [PRESS DATA ERR] RL	×			
C1720: [CODE ERR] FL	×			
C1721: [CODE ERR] FR	×	WT 25		
C1722: [CODE ERR] RR	×	<u>WT-25</u>		
C1723: [CODE ERR] RL	×			
C1724: [BATT VOLT LOW] FL	_			
C1725: [BATT VOLT LOW] FR	_	WT 20		
C1726: [BATT VOLT LOW] RR	_	<u>WT-28</u>		
C1727: [BATT VOLT LOW] RL	_			
C1729: VHCL SPEED SIG ERR	×	<u>WT-31</u>		
C1735: IGN CIRCUIT OPEN	_	BCS-36		

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< ECU DIAGNOSIS > [XENON TYPE]

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

Reference Value

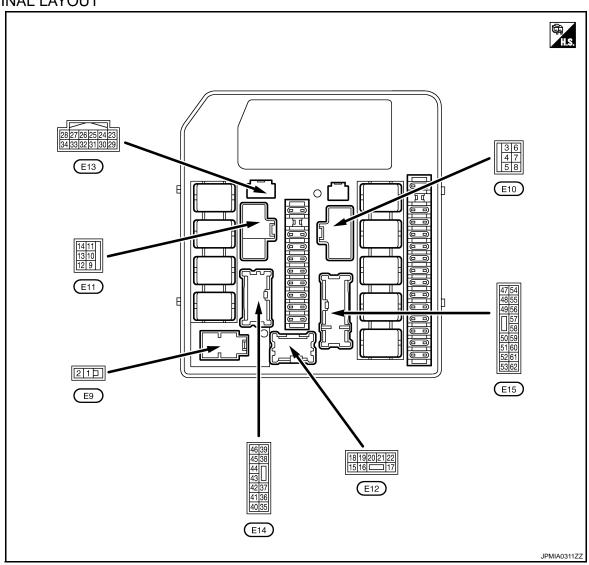
VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	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 OOLD DEO	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST or 2N	ID	On
111 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	s 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
ED WID DEG		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	utside the vehicle, and the push switch	Off
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is in pushed	side the vehicle, and the push switch is	On
IGN RLY	Ignition switch OFF or AC	C	Off
IGN ICLI	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
OIL D CW	Ignition switch OFF, ACC	Open	
OIL P SW	Ignition switch ON	Close	
DTRL REQ	Daytime running light sys	Off	
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light sys	tem 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 CLIIDD	Not operation	Off
HORN CHIRP	Horn is activated with key fob LOCK operation.	On

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No.	Description			Value	
(Wire	color)	Signal name Inpu		Condition	(Approx.)	
			Carpar			
(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)				Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)
3	0	Cttl	0	When engine is clanking		Battery voltage
(O)	Ground	Starter relay power supply	Output	When engine is not	clanking	0 V
4	0	Cooling fan relay-1 power	0 1 1	Cooling fan opera-	OFF	0 V
(W)	Ground	supply	Output	tion	MID or HI	Battery voltage
5	0	Louisian audital CTART		Ignition switch OFF,	ACC or ON	0 V
(R)	Ground	Ignition switch START	Input	Ignition switch STAR	RT	Battery voltage
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7	Cround	Cooling fan motor-2 (HI)		Cooling fan opera-	OFF	Battery voltage
(P)	Ground	ground		tion	HI	0 V
8	Cround	Cooling fan relay-2 power	Outrut	Cooling fan opera-	OFF	0 V
(G)	Ground	supply	Output	tion	HI	Battery voltage
11 (B)	Ground	Ground	_	Ignition switch ON		0 V
12	Crownd	Rear window defogger re-	Outenit	Innition quitab ON	Rear window defogger switch OFF	0 V
(O)	Ground	lay power supply	Output	Ignition switch ON	Rear window defogger switch ON	Battery voltage
15 ^{*1}	0	Daytime running light relay	0	Daytime running	Not operated	Battery voltage
(SB)	Ground	control	Output	light system	Operated	0 V
16 ^{*2}	Cround	Front for Jamp (LH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(Y)	Ground	Front fog lamp (LH)	Output	2ND	Front fog lamp switch ON	Battery voltage
17 ^{*2}	Ground	Front fog lamp (RH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(W)	Giodila	Tront log lamp (IXI I)	Output	2ND	Front fog lamp switch ON	Battery voltage
18	Ground	Headlamp LO (LH)	Output	Lighting switch OFF	Lighting switch OFF	
(L)	Ground	Headiamp LO (LH)	Output	Lighting switch 2ND		Battery voltage
20	Ground	Headlamp LO (RH)	Output	Lighting switch OFF		0 V
(SB)	Ground	Headiamp LO (INTI)	Output	Lighting switch 2ND		Battery voltage
				Lighting switch OFF		0 V
21 (G)	Ground	Headlamp HI (LH)	Output	Lighting switch 2NLighting switch PA		Battery voltage
				Daytime running ligh	nt system Operated*1	7.0 V
				Lighting switch OFF		0 V
22 (LG)	Ground	Headlamp HI (RH)	Output	Lighting switch 2NLighting switch PA		Battery voltage
				Daytime running ligh	Daytime running light system Operated*1	
23	0	Oil property state !	1	Innitionit 1 Chi	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		
26 (P)	_	CAN-L	Input/ Output		_	_

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< ECU DIAGNOSIS > [XENON TYPE]

	nal No.	Description				Value
+	color)	Signal name	Input/ Output	(Condition	(Approx.)
27 (L)	_	CAN-H	Input/ Output	_		_
31 (LG)	Ground	Cooling fan relay-4 control	Output	Cooling fan operation	OFF LO	Battery voltage 0 - 1.0 V
					ximately 2 seconds or more tion switch from ON to OFF	Battery voltage
32 (V)	Ground	Throttle control motor re- lay 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		Engine stopped	Battery voltage
(GK)				Ignition switch ON	Engine running	0.8 V
34 ^{*3}				Close the hood		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		5 1: 1 (11)		Lighting switch OFF		0 V
(R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
39		D 1: 1 (DI)		Lighting switch OFF		0 V
(GR)	Ground	Parking lamp (RH)	Output	Lighting switch 1ST		Battery voltage
40	0	126	0 1 1	Ignition switch OFF or ACC		0 V
(BR)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
41	0	126	0 1 1	Ignition switch OFF or ACC		0 V
(O)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
42	Craund	Front win or I II	Outnut	Ignition quitab ON	Front wiper switch OFF	0 V
(L)	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch HI	Battery voltage
43	0	Frank win and O	0	Inviting quital ON	Front wiper switch OFF	0 V
(G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch LO	Battery voltage
45					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	Crownd	Fuel pump relay power	Outrout	Ignition switch OF After passing appraafter turning the ignition	roximately 1 second or more	0 V
(W)	Ground	supply	Output		For approximately 1 second after turning the ignition switch ON	
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 tion switch from C	4 seconds after turning igni-	Battery voltage
40					ximately 4 seconds or more tion switch from ON to OFF	0 V
48 (R)	Ground	ECM relay power supply	Output	 after turning the ignition switch from ON to OFF Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF 		Battery voltage

[XENON TYPE] < ECU DIAGNOSIS >

	inal No.	Description				
(Wire	e color)	Signal name	Input/ Output	Condition		Value (Approx.)
50	Ground	Cooling for roley 5 central	Output	Cooling fan opera-	OFF	Battery voltage
(G)	Giodila	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V
51					ximately 4 seconds or more ition switch from ON to OFF	Battery voltage
(L)	Ground	ECM relay control	Output	Ignition switch ON For approximately tion switch from C	y 4 seconds after turning igni-	0 - 1.0 V
52		Throttle control motor re-			ximately 2 seconds or more ition switch from ON to OFF	0 V
52 (P)	Ground	lay power supply	Output	For approximately	 Ignition switch ON For approximately 2 seconds after turning ignition switch from ON to OFF 	
				Engine stopped		0 V
55		A/C relay power supply	I		A/C switch OFF	0 V
(O)	Ground		Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage
56	Ground	Ignitian quitoh ON	Input	Ignition switch OFF	or ACC	0 V
(SB)	Giodila	Ignition switch ON	Input	Ignition switch ON		Battery voltage
57	Ground	Horn relay control	Output	The horn is not activ	vated	Battery voltage
(V)	Giodila	Hom 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)	Ciddia	Ightton roley power cappin	Cuipui	Ignition switch ON		Battery voltage
59	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V
(BR)	Ciodila	Ignition relay power suppry	Cutput	Ignition switch ON		Battery voltage
60	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
(SB)	Giodila	Igillion rolay power suppry	Output	Ignition switch ON		Battery voltage
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage

^{*1:} With daytime running light system

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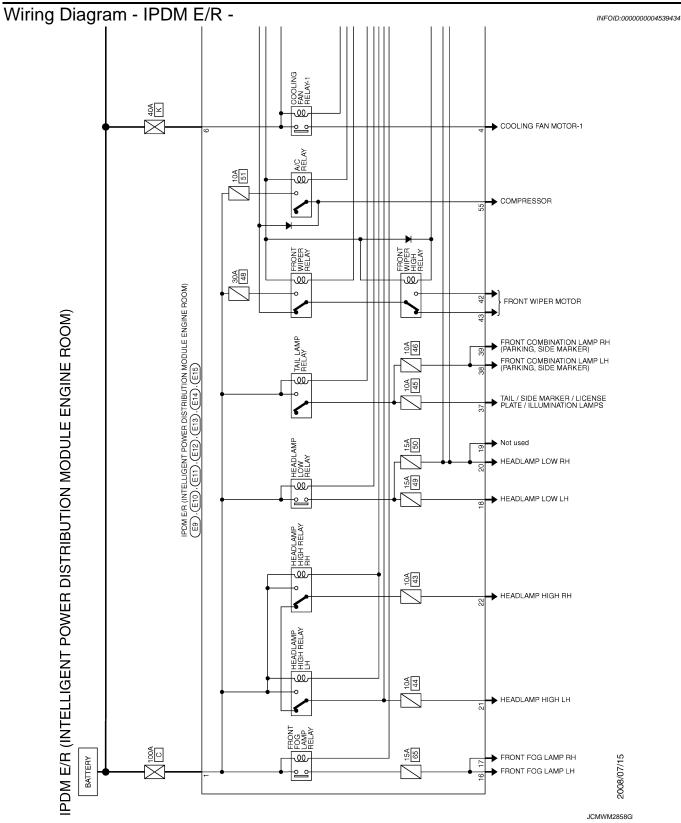
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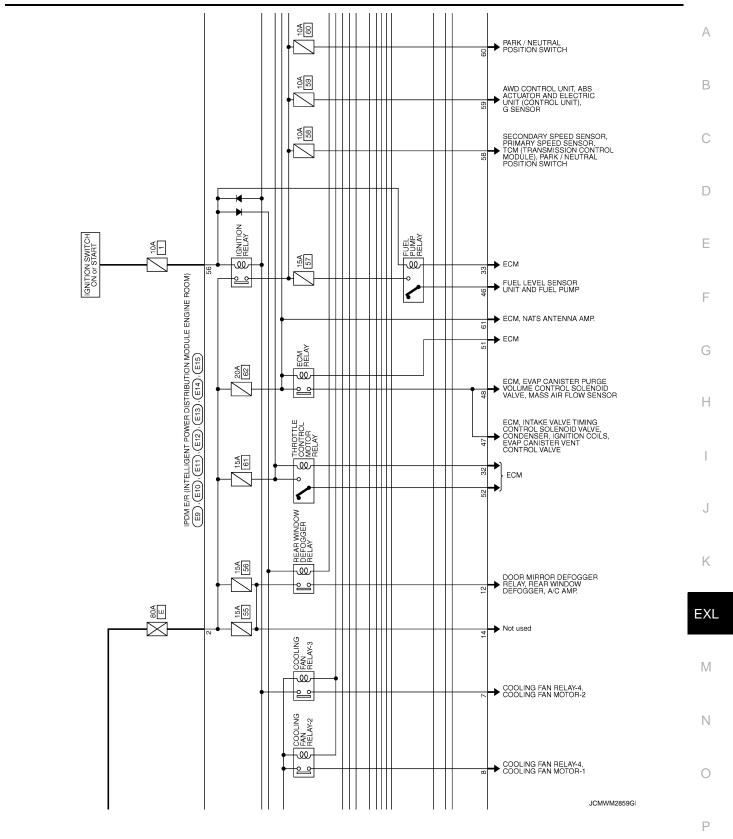
^{*2:} With front fog lamp system

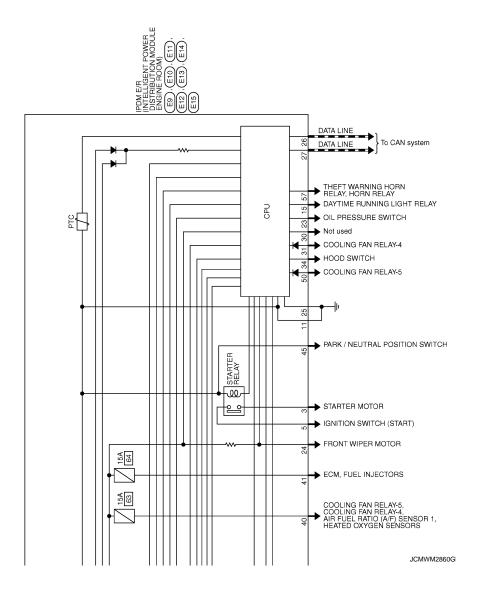
^{*3:} For Mexico

[XENON TYPE] < ECU DIAGNOSIS >



[XENON TYPE] < ECU DIAGNOSIS >





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

Α Signal Name [Specification В C D Е Signal Name [Specification] F Н PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Signal Name [Specification] J K EXL M □- < Ν 0 JCMWM2861G

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

< 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/D 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 stop position signal.

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

NOTE:

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

DTC Index INFOID:0000000004539436

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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EXL-105 Revision: 2008 August 2009 Rogue

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[XENON TYPE]

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.

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 EXL-30.	
	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 turn	ned ON.	"BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to <u>EXL-112</u> .		
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 <u>EXL-38</u> .	
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 >

[XENON TYPE]

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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.
Turn signal indicator lamp does not blink. (Turn signal indicator lamp is normal.)	One side	Combination meter	-
	Both sides (Always)	Turn signal indicator lamp signalBCMCombination 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 switch Harness between the hazard switch and BCM BCM 	Hazard switch Refer to <u>EXL-42</u> .

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

NORMAL OPERATING CONDITION

Description INFOID:0000000004230828

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

[XENON TYPE] < SYMPTOM DIAGNOSIS >

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description INFOID:0000000004230829

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

Diagnosis Procedure

INFOID:0000000004230830

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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

- Select "HL HI REQ" of IPDM E/R data monitor item.
- 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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EXL-109 Revision: 2008 August 2009 Rogue

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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:0000000004230831

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

Diagnosis Procedure

INFOID:0000000004230832

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

(P)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	Lighting switch	2ND	On
	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]

INFOID:0000000004230834

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PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

Description

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?

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		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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BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:000000004230838

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

Diagnosis Procedure

INFOID:0000000004230836

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
	(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

< PRECAUTION > [XENON TYPE]

PRECAUTION

PRECAUTIONS
FOR USA AND CANADA

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS 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".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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"

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.

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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:00000000004230840

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 BINFOID:000000004230841 B

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.

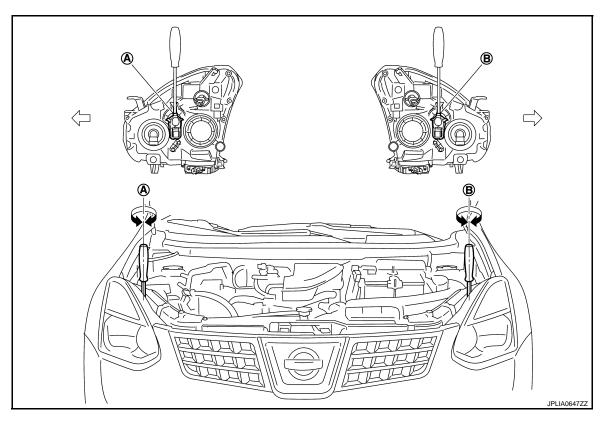
Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

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

AIMING ADJUSTMENT SCREW



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

⟨□: Vehicle center

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Revision: 2008 August EXL-115 2009 Rogue

	Adjustment screw	Screw driver rotation	Facing direction
A Lloodleren DII (LID/DOM/N)		Clockwise	DOWN
A Headlamp RH (UP/DOWN)	Counterclockwise	UP	
В	Headlema I H (UD/DOWN)	Clockwise	DOWN
В	Headlamp LH (UP/DOWN)	Counterclockwise	UP

Aiming Adjustment Procedure

INFOID:0000000004230842

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:

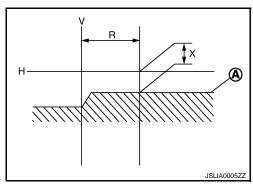
Never cover the lens surface with a tape etc. The lens is made of resin.

 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 ± 175 mm (13.78 ± 6.89 ment range (R) in)

mont range (it)

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

HEADLAMP AIMING ADJUSTMENT

< ON-VEHICLE MAINTENANCE >	[XENON TYPE]
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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:000000004230843

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.)

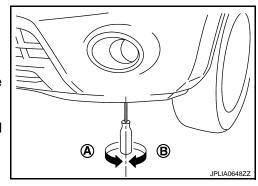
· Ride alone on the driver seat.

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:0000000004230844

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.

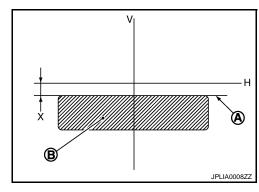
CAUTION:

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 >

[XENON 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

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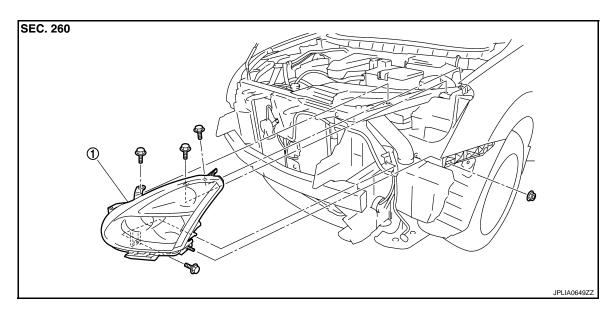
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ON-VEHICLE REPAIR

FRONT COMBINATION LAMP

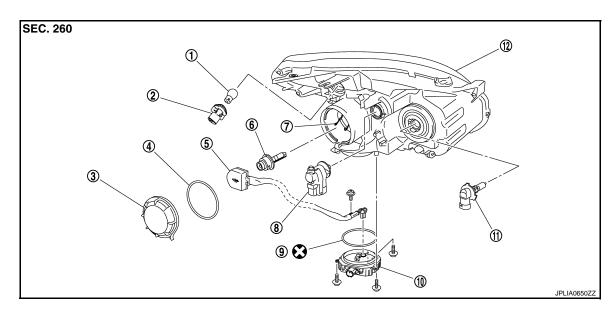
Exploded View

REMOVAL



1. Front combination lamp

DISASSEMBLY



- Front turn signal/parking (side marker) 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)

6. Xenon bulb (LO)

Resin cap

- 9. Seal packing
- 12. Headlamp housing assembly

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

FRONT COMBINATION LAMP

< ON-VEHICLE REPAIR >

[XENON TYPE]

Removal and Installation

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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:00000000004230847

CAUTION:

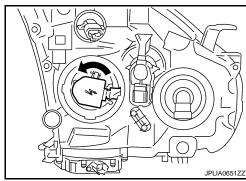
- Disconnect the battery negative terminal or the fuse.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.

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.



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.
- Rotate the xenon bulb socket counterclockwise and unlock it.
- 3. 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

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

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2009 Rogue

Revision: 2008 August

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.

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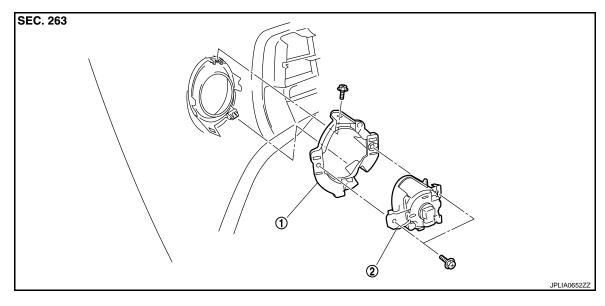
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FRONT FOG LAMP

Exploded View



1. Front fog lamp bracket

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.
- Remove the screw. And remove the front fog lamp.
- 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".

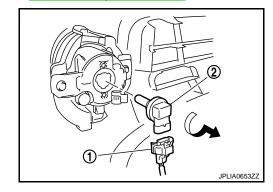
Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

FRONT FOG LAMP BULB

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



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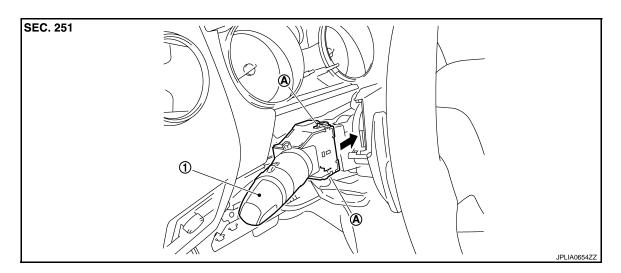
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EXL-123 Revision: 2008 August 2009 Rogue

[XENON TYPE]

LIGHTING & TURN SIGNAL SWITCH

Exploded View



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

Removal and Installation

INFOID:0000000004230853

2009 Rogue

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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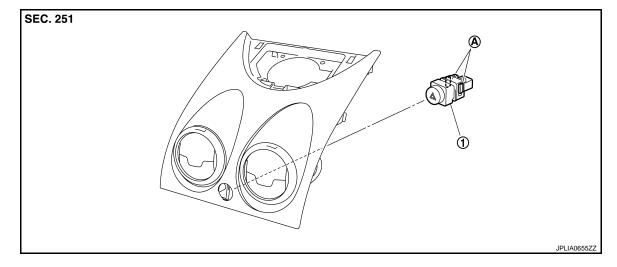
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HAZARD SWITCH

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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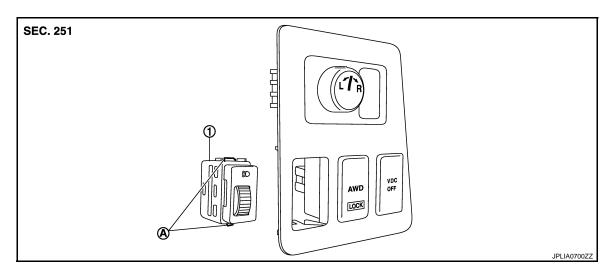
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HEADLAMP AIMING SWITCH

Exploded View



- 1. Headlamp aiming switch
- A. Pawls

Removal and Installation

INFOID:0000000004230857

2009 Rogue

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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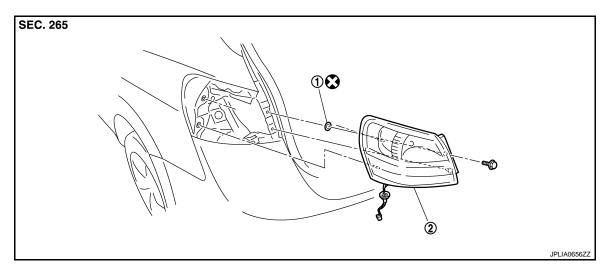
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REMOVAL

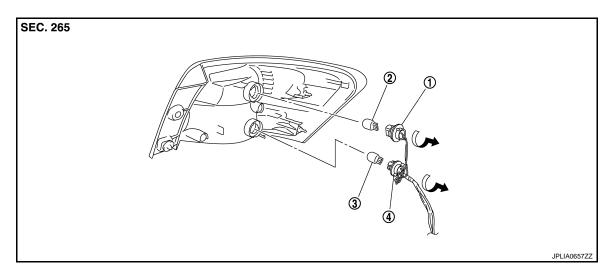


Seal packing

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

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INFOID:0000000004230859

Removal and Installation

CAUTION:

Disconnect the battery negative terminal or the fuse.

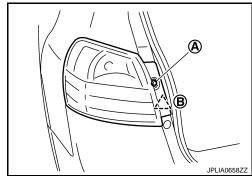
REMOVAL

- 1. Remove the luggage side lower finisher. Refer to INT-30, "Exploded View".
- 2. Disconnect rear combination lamp connector.

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

CAUTION:

Disconnect the battery negative terminal or the fuse.

STOP/TAIL (SIDE MARKER) LAMP BULB

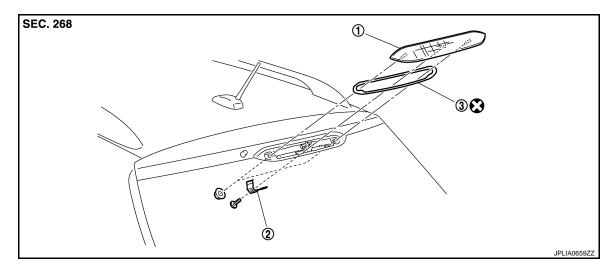
- 1. Remove rear combination lamp. Refer to EXL-127, "Exploded View".
- 2. Rotate the stop/tail (side marker lamp) bulb socket counterclockwise, and unlock it.
- 3. Remove bulb from the bulb socket.

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:0000000004230861



1. High-mounted stop lamp

2. Clip

3. Seal packing

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

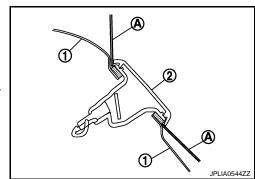
Removal and Installation

CAUTION:

Disconnect battery negative terminal or remove the fuse.

REMOVAL

- Remove the back door trim finisher upper. Refer to INT-33, "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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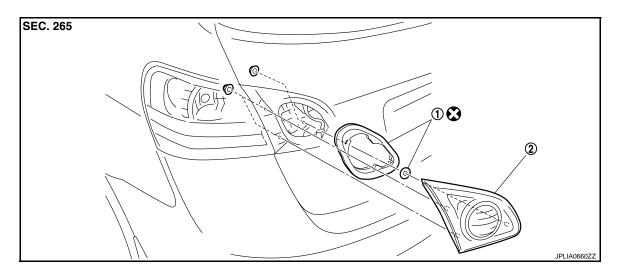
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BACK-UP LAMP

Exploded View



Seal packing

2. Back-up lamp

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

Removal and Installation

INFOID:0000000004230864

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- 1. Remove the back door mask. Refer to INT-33, "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.

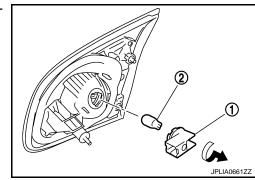
Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

BACK-UP LAMP BULB

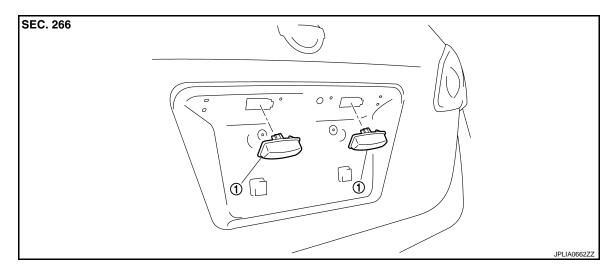
- 1. Remove the back-up lamp. Refer to EXL-130, "Exploded View".
- 2. Disconnect the connector, rotate the bulb socket (1) counterclockwise and unlock it.
- 3. Remove the bulb (2) from the socket.



[XENON TYPE]

LICENSE PLATE LAMP

Exploded View



1. License plate lamp

Removal and Installation

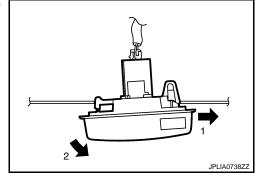
INFOID:0000000004230867

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- Remove back door trim finisher lower. Refer to <u>INT-33, "Exploded View"</u>.
- Remove back door finisher.Refer to <u>INT-33</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-33. "Exploded View"</u>.

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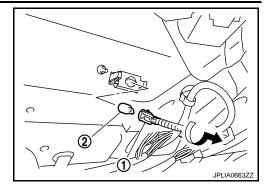
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LICENSE PLATE LAMP

< 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:0000000004230869

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
Tront combination lamp	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	_

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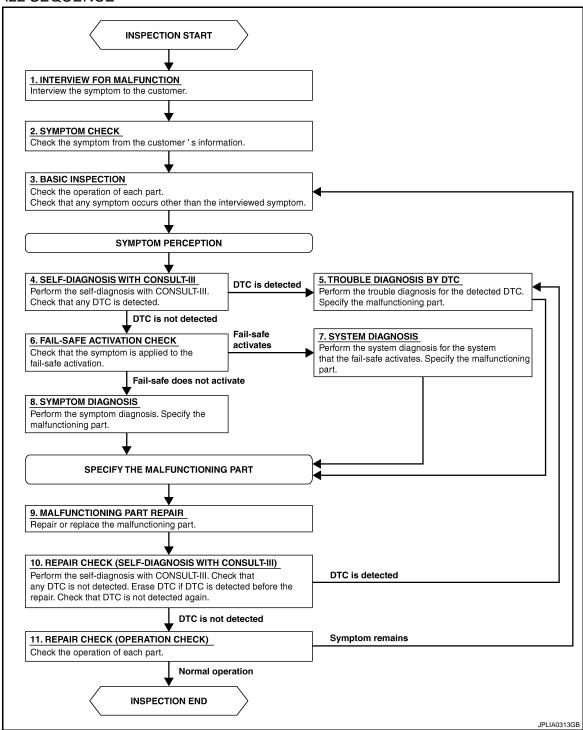
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

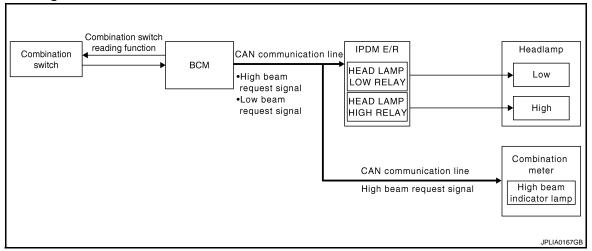
DIAGNOSIS AND REPAIR WORKFLOW	
< BASIC INSPECTION >	[HALOGEN TYPE]
>> GO TO 2.	
2.symptom check	
Check the symptom from the customer's information.	
>> GO TO 3.	
3.BASIC INSPECTION	
Check the operation of each part. Check that any symptom occurs other than the interview	ewed symptom.
>> GO TO 4.	
4.SELF-DIAGNOSIS 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:0000000004230871



System Description

INFOID:0000000004230872

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:0000000004230873

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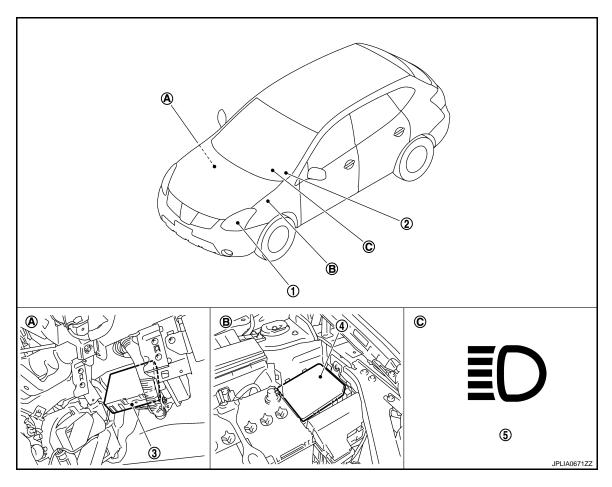
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- 1. Headlamp
- 4. IPDM E/R
- A. Over the glove box
- 2. Combination switch
- 5. High beam indicator lamp
- B. Engine room (LH)
- 3. BCM
- C. On the combination meter

Component Description

INFOID:00000000004230874

Part	Description
ВСМ	 Detects each switch condition by the combination switch reading function. Judges that the headlamp is turned ON according to the vehicle condition. Requests the headlamp relay (HI/LO) ON to IPDM E/R (with CAN communication). Requests the high beam indicator lamp ON to the combination meter (with CAN communication).
IPDM E/R	Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication).
Combination switch (Lighting & turn signal switch)	Refer to BCS-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 August EXL-137 2009 Rogue

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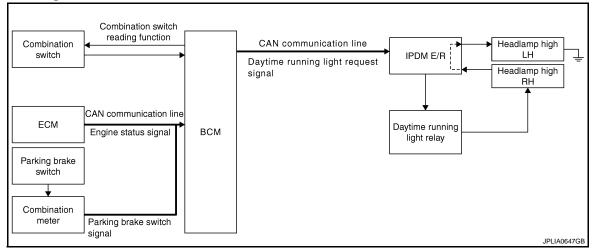
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[HALOGEN TYPE]

DAYTIME RUNNING LIGHT SYSTEM

System Diagram

INFOID:0000000004230875



System Description

INFOID:0000000004230876

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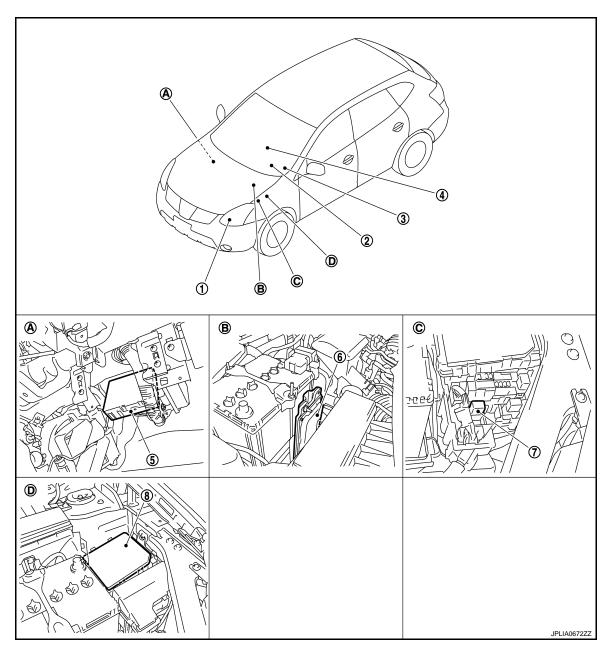
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- 1. Headlamp (HI)
- 4. Parking brake
- 7. Daytime running light relay
- A. Over the glove box
- D. Engine room (LH)

- 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:0000000004230878

Part	Description
BCM	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.

[HALOGEN TYPE]

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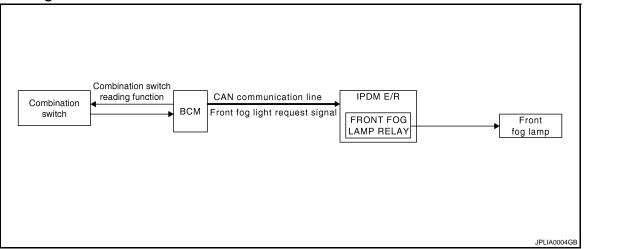
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FRONT FOG LAMP SYSTEM

System Diagram



System Description

INFOID:0000000004230880

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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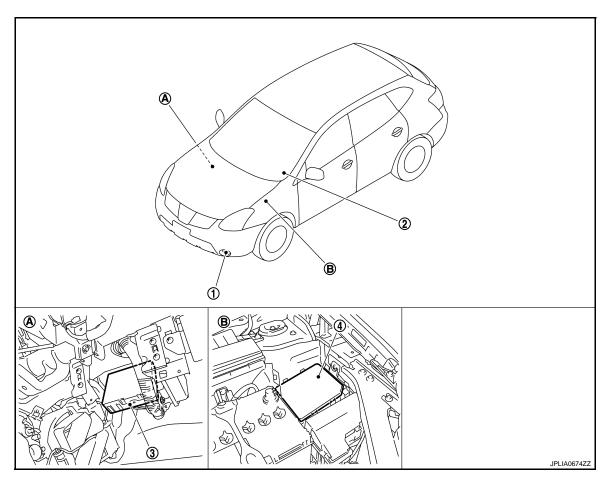
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Component Parts Location

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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:0000000004230882

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".

INFOID:0000000004230883

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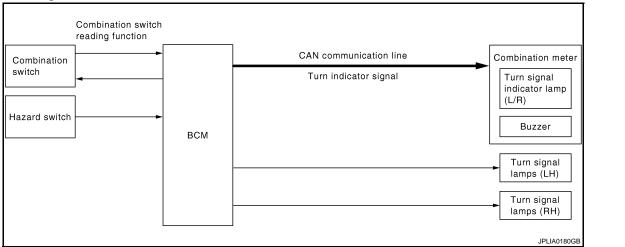
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

System Diagram



System Description

INFOID:0000000004230884

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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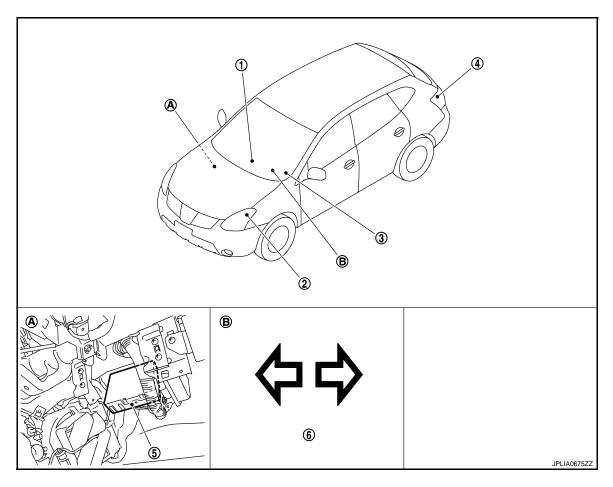
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EXL-143 Revision: 2008 August 2009 Rogue

Component Parts Location

INFOID:0000000004230885



- 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:0000000004230886

Part	Description
ВСМ	 Detects each switch condition by the combination switch reading function. Judges the blinks of the turn signal lamp and the hazard warning lamp from each switch status. The applicable turn signal lamp blinks. Requests the turn signal indicator lamp blink to the combination meter (with CAN communication).
Combination switch (Lighting & turn signal switch)	Refer to BCS-9, "System Diagram".
Hazard switch	Inputs the hazard switch ON/OFF signal to BCM.
Combination meter (Turn signal indicator lamp & buzzer)	Blinks the turn signal indicator lamp and outputs the turn signal operating sound with integrated buzzer according to the request from BCM (with CAN communication).

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

System Diagram

INFOID:0000000004230887 Combination switch reading function IPDM E/R CAN communication line Combination всм TAIL LAMP Parking switch Position light request RELAY lamp signal License plate lamp Tail lamp To illuminations Combination meter CAN communication line Tail lamp Position light request signal indicator lamp

System Description

INFOID:0000000004230888

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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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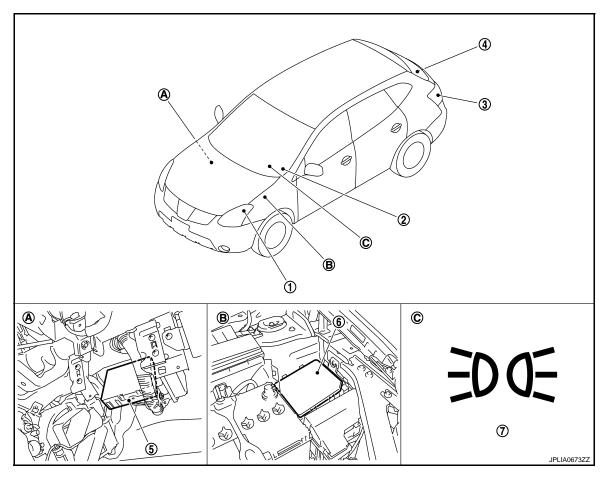
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Component Parts Location

INFOID:0000000004230889



- 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:0000000004230890

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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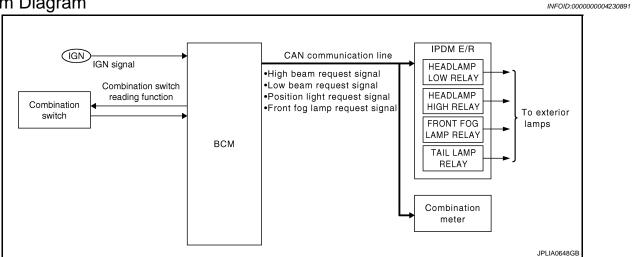
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EXTERIOR LAMP BATTERY SAVER SYSTEM

System Diagram



System Description

INFOID:0000000004230892

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.

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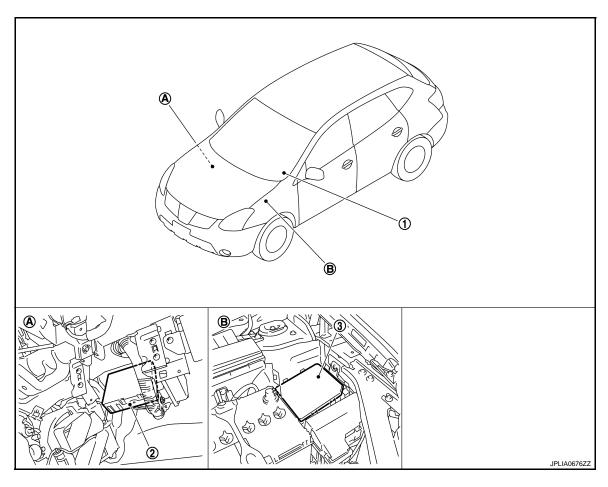
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Component Parts Location

INFOID:0000000004230893



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

3. IPDM E/R

Component Description

INFOID:0000000004230894

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)

INFOID:0000000004539420

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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-230, "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

Civatara	CONSULT-III	Diagnosis mode			
System	sub system selection item	Work Support	Data Monitor	Active Test	
Door lock	r 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	×			
mmobilizer IMMU			×	×	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Back door open	TRUNK		×	×	
Vehicle security system	THEFT ALM	×	×	×	
RAP system	RETAINED PWR	×	×	×	
Signal buffer system	uffer 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 >

[HALOGEN TYPE]

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

INFOID:0000000004230896

WORK SUPPORT

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

^{*:} Factory 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 quitch status that PCM judges from the combination switch reading function		
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		

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

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Monitor item [Unit]	Description		
TURN SIGNAL R [On/Off]	Each quitab status that DCM judges from the combination quitab 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:0000000004230897

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]	From quitab condition that DCM indeed from the combination quitab 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.

[HALOGEN TYPE]

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000004539423

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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 the 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 the 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.

Operation sequence	Inspection location	Operation
Α	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

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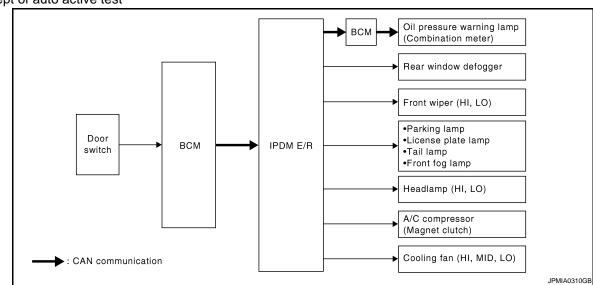
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Concept of auto active test



- 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
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

DIAGNOSIS SYSTEM (IPDM E/R)

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

Symptom	Inspection contents	Inspection contents Possible cause	
	Perform auto active test.	YES	Harness or connector between IPDM E/R and oil pressure switch Oil pressure switch IPDM E/R
Oil pressure warning lamp does not operate	Does the oil pressure warning lamp blink?	NO	 CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and 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:0000000004539424

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.
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-242, "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.

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DIAGNOSIS SYSTEM (IPDM E/R)

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

Monitor Item [Unit]	MAIN SIGNALS	Description
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 stop position signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
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

Test item	Operation	Description	
DEAD DEFOCCED	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 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).	

DIAGNOSIS SYSTEM (IPDM E/R)

< FUNCTION DIAGNOSIS >

[HALOGEN TYPE]

Test item	Operation	Description
Off TAIL EXTERNAL LAMPS Hi	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.
	Lo	Operates the headlamp low relay.
	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

INFOID:0000000004539428

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

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

Terminals		Ignition switch position			
(+)			ignition switch position		
BCM		(-)	OFF	ACC	ON
Connector	Terminal		Orr	ACC	ON
M67	70		Battery	Battery	Battery
IVIO7	57 volta	voltage	voltage	voltage	
M65	11	Ground	Approx. 0 V	Battery voltage	Battery voltage
1000	38		Approx. 0 V	Approx. 0 V	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and the ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M67	67		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the 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

INFOID:0000000004539427

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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 the ignition switch OFF.
- 2. Disconnect IPDM E/R connectors.
- 3. Check voltage between IPDM E/R harness connectors and the 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 the harness or connector.

3. CHECK GROUND CIRCUIT

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

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

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

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EXTERIOR LAMP FUSE

Description INFOID:000000004230902

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 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

INFOID:0000000004230903

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 LAMPS" of IPDM E/R active test item.
- 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 LAMPS" of IPDM E/R active test item.
- 5. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

	Т	erminals	Test item		
(+)		(+) (–		163t item	Voltage
IPDM E/R			EXTERNAL	(Approx.)	
Coi	nnector	Terminal		LAMPS	
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	IPDM E/R 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?

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

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[HALOGEN TYPE]

< COMPONENT DIAGNOSIS >

YES (With daytime running light system)>>GO TO 6.

NO >> Repair the harnesses or connectors.

3.CHECK HEADLAMP (HI) FUSE

- 1. 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.

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	Connector Term		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
Connector Terminal		Ground	Continuity	
RH	E43	2	Giodila	Existed
LH	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 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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Check continuity between headlamp high RH harness connector and daytime running light relay harness connector.

Headlamp high		Daytime running light relay		Continuity	
Conr	nector	Terminal	Connector	Terminal	Existed
RH	E43	2	E65	3	LXISIGU

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		LXISIEG

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]

INFOID:0000000004230906

INFOID:0000000004230907

HEADLAMP (LO) CIRCUIT

Component Function Check

1. CHECK HEADLAMP (LO) 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 is turned ON.

(P)CONSULT-III ACTIVE TEST

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

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 LAMPS" of IPDM E/R active test item.
- With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

		Terminals	Test item		
(+)		(-)	1631 116111	Voltage	
	IPDM E/R			EXTERNAL	(Approx.)
Conr	nector	Terminal		LAMPS	
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.
- 2. Disconnect IPDM E/R connector.
- 3. Check continuity between the IPDM E/R harness connector and the headlamp low harness connector.

	IPDM 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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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
Connector Terminal		Ground	Continuity	
RH	E12	20	Glound	Not existed
LH	E12	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 ground.

Headlamp low				Continuity
Connector Terminal		Ground	Continuity	
RH	E45	2	Glound	Existed
LH	E26	2		LXISTEG

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:0000000004230908

INFOID:0000000004230909

FRONT FOG LAMP CIRCUIT

Component Function Check

1. CHECK FRONT FOG LAMP OPERATION

®IPDM E/R AUTO ACTIVE TEST

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

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

Is the front fog lamp turned ON?

YES >> Front fog lamp circuit is normal.

NO >> Refer to EXL-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

- 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	Giouria	Not existed
LH	E12	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

- Disconnect the front fog lamp connector.
- Turn the ignition switch ON.
- 3. Select "EXTERNAL LAMPS" 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		LAMPS		
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

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

_					
	IPDM E/R		Front fog lamp		Continuity
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	F12	17	E48	2	Existed
LH	L12	16	E30	2	LAISIGU

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
Conr	nector	Terminal	Ground	Continuity
RH	E48	1	Giodila	Existed
LH	E30	1		LAISIEU

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

INFOID:0000000004230910

1. CHECK DAYTIME RUNNING LIGHT OPERATION

©CONSULT-III ACTIVE TEST

- 1. Select "EXTERNAL LAMPS" 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:0000000004230911

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 running light relay			prox.)	
Connector	Terminal	Ground		
E65	1	Glound	Ratton, voltago	
LOS	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.

f 4.CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL OUTPUT

©CONSULT-III ACTIVE TEST

- 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		
(+)		(-)	1631 16111	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-

IPDI	IPDM E/R		ning 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 runn	Daytime running light relay		
Terr	Voltage	Continuity	
5		Apply	Existed
	3	Not Apply	Not existed
4	3	Apply	Not existed
		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:0000000004230913

${f 1}$.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 LAMPS" of IPDM E/R active test item.
- With operating the test items, check that the parking lamp is turned ON.

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TAIL : Parking lamp ON Off : Parking lamp OFF

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Is the parking lamp turned ON?

YES >> Parking lamp circuit is normal.

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

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Diagnosis Procedure

INFOID:0000000004230914

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	E14	39	Glound	Not existed	
LH	∟14	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

- Disconnect the parking lamp connector.

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(P)CONSULT-III ACTIVE TEST

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

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.

	T	erminals	Test item		
(+)		(+)		iest itemi	Voltage
IPDM E/R			EXTERNAL	(Approx.)	
Coi	nnector	Terminal		LAMPS	
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 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.

TURN SIGNAL LAMP CIRCUIT

Description INFOID:0000000004230915

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:0000000004230916

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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-173, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004230917

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.

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	Terminals			Condition	
	(+)		(-)	Condition	Voltage (Approx.)
	ВСМ			Turn signal	vollage (Approx.)
Со	nnector	Terminal			
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 >

[HALOGEN TYPE]

3.check turn signal lamp open circuit

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. 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	Connector 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	Evictod
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		INOL 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	Glound	Existed
LH	E27	2		Existed

Rear turn signal lamp

Rear combination lamp				Continuity	
Connector		Terminal	Ground	Continuity	
RH	B59	4	Ground	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:0000000004230918

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1. CHECK HAZARD SWITCH SIGNAL BY CONSULT-III

(E)CONSULT-III DATA MONITOR

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

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

Is the item status normal?

YES >> Hazard switch circuit is normal.

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

Diagnosis Procedure

INFOID:0000000004230919

1. CHECK HAZARD SWITCH SIGNAL INPUT

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

Terminals (+)			Condition	Veltage (Approv)	
		(-)	Condition		
ВСМ		Hazard switch		Voltage (Approx.)	
Connector	Terminal		riazara switori		
			ON	0 V	
M65	29	Ground	OFF	(V) 15 10 5 0 	

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.
- 3. Check continuity between the hazard switch harness connector and the BCM harness connector.

Hazard switch		BCM		Continuity
Connector	onnector Terminal Connec		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	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.

TAIL LAMP CIRCUIT

Component Function Check

INFOID:0000000004230920

NOTE:

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

1. CHECK TAIL LAMP OPERATION

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PIPDM E/R AUTO ACTIVE TEST

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

(P)CONSULT-III ACTIVE TEST

- 1. Select "EXTERNAL LAMPS" 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.

Turn the ignition switch OFF.

NO >> Refer to EXL-177, "Diagnosis Procedure".

INFOID:0000000004230921

Diagnosis Procedure

- 1. CHECK TAIL LAMP FUSE
- 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.

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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 LAMPS" of IPDM E/R active test item.
- With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

(+) (-)	Voltage
	/ / n n max /
	ERNAL (Approx.)
Connector Terminal LA	MPS
E14 37	AIL Battery voltage
	Off 0 V

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace IPDM E/R.

3.CHECK TAIL LAMP OPEN CIRCUIT

Turn the ignition switch OFF.

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EXL-177 Revision: 2008 August 2009 Rogue

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		Rear combination lamp		Continuity	
C	Connector	Terminal	Connector	Terminal	Continuity
RH	F14	37	B59	1	Existed
LH	L14	3/	B80	1	LXISIEU

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 Termin		Terminal	Ground	Continuity
RH	B59 4		Ground	Existed
LH	_H 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:0000000004230922

1. CHECK LICENSE PLATE LAMP OPERATION

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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.

(P)CONSULT-III ACTIVE TEST

- 1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- 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-179, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004230923

1. CHECK LICENSE PLATE LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

YES >> GO TO 2.

NO >> Replace the bulb.

2.CHECK LICENSE PLATE LAMP OPEN CIRCUIT

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

IPDM E/R		License plate lamp		Continuity	
Connector 1		Terminal	Connector	Terminal	Continuity
RH	E14	37	D196	1	Existed
LH	LI4	3/	D195	1	LXISIEU

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Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

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

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

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

0

Р

Does continuity exist?

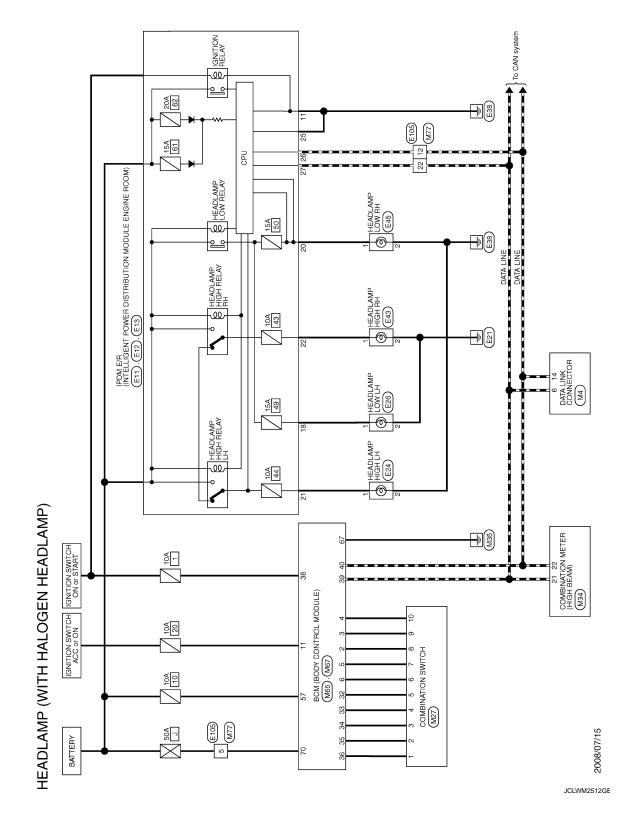
YES >> Replace the license plate lamp.

NO >> Repair the harnesses or connectors.

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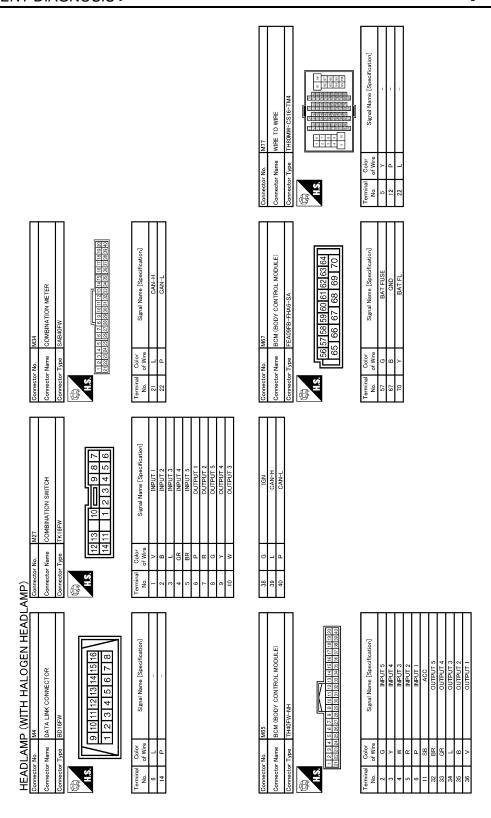
HEADLAMP SYSTEM

Wiring Diagram - HEADLAMP -

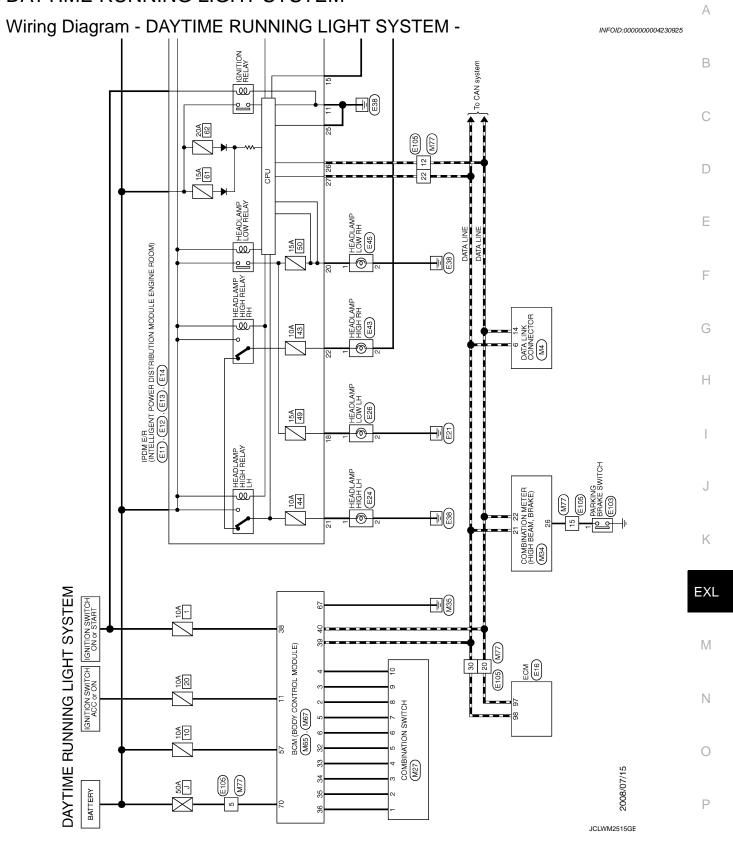


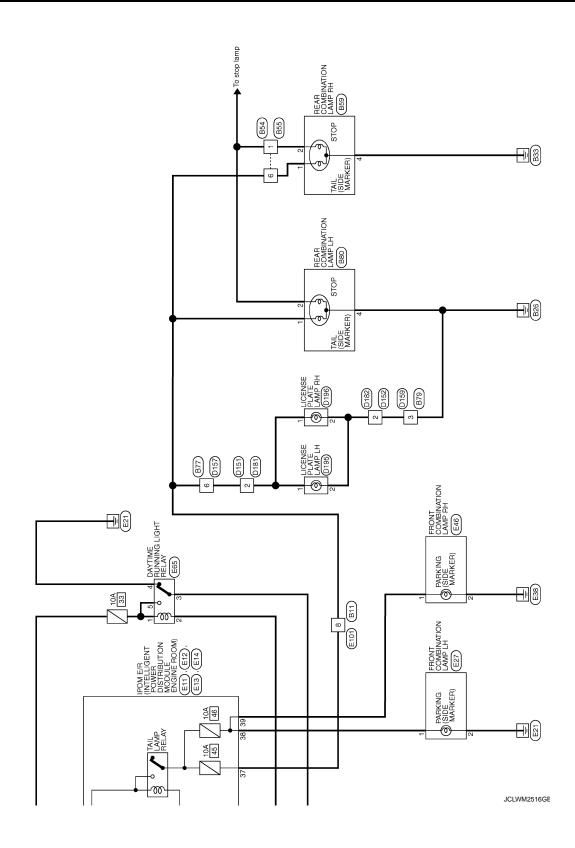
E24 HEADLAMP HIGH LH (WITHOUT XENON HEADLAMP) U0ZFB	Signal Name [Specification]	1105 WIPE TO WIPE H80FW-CS16-TM4	Signal Name [Specification]		АВ
Connector No. E24 Connector Name HEADL Connector Type UOZFB	Terminal Color No. of Wire 1 G	Connector No. E105 Connector Name WIRE TO WIRE Connector Type THREW-CS16	Terminal Color No. of Wire 5 V 5 12 2 L 22 L		C D
E13 PDM E-/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) THI 2PW-NH 28 27 26 25 24 23 34 33 32 31 30 29	Signal Name [Specification]	E45 HEADLAMP LOW RH (WITHOUT XENON HEADLAMP) FHZ027B	Signal Name [Specification]		E F
r No. or Type	Color of Wine P B B	No. Name Type	Color of Wire B B B		G
Connectc	Terminal No. 25 26 26 27 27	Connector Connector	No. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Н
ELZ IPDM E.R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) NSOBFER-CS 17	Signal Name [Specification]	E43 HEADLAMP HIGH RH (WITHOUT XENON HEADLAMP) UOZFB	Signal Name [Specification] -[Without daytime running light system]		I
Connector No. El Connector Name IPI Connector Name IPI Connector Type NS Connector T	Terminal Color No. 97 Wire 18 L 20 21 SB 21 C 22 LG	Connector No. Est Connector Name HE Connector Type U.O. Connector Type U.O. HE MAN HE	Terminal Color No. of Wire 1 LG 2 B B		K
HALOGEN HEADL TRELIGENT POWER IN MODULE ENGINE ROOM)	Signal Name [Specification]	E26 HEADLAMP LOW LH (WITHOUT XENON HEADLAMP) FHZOZEE	Signal Name [Specification]		M.
IP (WITH EI) IPDM E/R (IN DISTRIBUTION MOSFB-LC III IIII IIII IIII IIII IIII IIII II		E26 HEADLAMF HEADLAMF FHZ0ZFB			Ν
HEADLAM Connector No. Connector Name Connector Type M.S.	Terminal Color No. of Wire 11 B	Connector No. Connector Type H.S.	Color Colo		0
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Revision: 2008 August EXL-181 2009 Rogue



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[HALOGEN TYPE]

Connector No. B59	Connector No. D151 Connector Name WIRE TO WIRE Connector Type NSOB-BR-CS ALS Terminal Color Signal Name [Specification] 2 R Signal Name [Specification]	A B C
Connector No. B55	Connector No. 890 Connector Name REAR COMBINATION LAMP LH	E F G
Connector No. B54 Connector Name WIRE TO WIRE Connector Type NSIZMW-CS	Connector No. 679 Connector Name WIRE TO WIRE Connector Type MOMMW-LC Terminal Color No. of Wire Signal Name [Specification]	J K
DAYTIME RUNNING LIGHT SYSTEM Connector Name WIRE TO WIRE Connector Type TH80MW-CSIG-TM4 LAS TH80MW-CSIG-TM4 TH80MW-CSIG-TM4 TH80MW-CSIG-TM4 Signal Name [Specification]	Connector No. B77 Connector Name WIRE TO WIRE Connector Type NS10MW-CS	M N O JCLWM2517GE
		Р

Revision: 2008 August EXL-185 2009 Rogue

Connector No. D181	Connector Name WIRE TO WIRE Connector Type NSOBMBR-CS	H.S. 12 12 12 14 5 6 7 8	Terminal Color No. of Wire Signal Name [Specification]	Connector No. E11 Connector Name IPDM E/R (INTELLIGENT POWER Connector Name IPSTRRII ITTOM MOTILI F FINGINE ROOM)	Connector Type M06FB-LC	H.S. 11109 141312	Terminal Color Signal Name [Specification] No. of Wire B
Connector No. D159	Connector Name WIRE TO WIRE Connector Type M04FW-LC	HS. (211	Terminal Golor No. of Wire 3 BB	Connector No. D196 Connector Name LICENSE PLATE LAMP RH	Connector Type TK02FBR	#\$.	Terminal Color Signal Name [Specification] 1 R 2 B
Connector No. D157	Connector Name WIRE TO WIRE Connector Type NSI0FW-CS	HS. 4 3 - 2 1 10 9 8 7 6 5	Terminal Color Signal Name [Specification] No. of Wire 6 RR	Connector No. D195 Connector Name LICENSE PLATE LAMP LH	Connector Type TK02FBR	HS.	Terminal Color Signal Name [Specification] No. of Wire 1 R - 2 B -
DAYTIME RUNNING LIGHT SYSTEM Connector No. D152	Connector Name WIRE TO WIRE Connector Type M02FW-GY-LC	#3.	Terminal Color Signal Name [Specification]	Connector No. D182 Connector Name WIRE TO WIRE	Connector Type M02MW-GY-LC	HS.	Terminal Color Signal Name [Specification] 2 B -

JCLWM2518GE

[HALOGEN TYPE]

Control Fig. Cont	Cornector No. E16 Cornector Name ECM Cornector Type RH24FB-R28-L-LH Cornector Type RH24FB-R28-L-LH R155 80 80 80 80 111		P[With daytime running light ayatem] C D
Connector Name Dayle EN (ONTRICAL FOON) Connector Name Connector N	E14 PUDN E. PR. (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) ON SIZEBR-CS 39 38	FRONT COMBINATION LAMP LH FRONT COMBINATION LAMP LH A ZOSFGY Signal Name [Specification]	E F G
Connector Name	Nie Mire	olor Mire	w K
	Connector No. E12 Connector No. E12 Connector Name PPOM E/R (INTELLICENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type NSOBFBR-CS NSO	P o Ö 🗦 u	M N

Revision: 2008 August EXL-187 2009 Rogue

Connector No. E101 Connector Type TH80FW-CS16-TM4 Line To WRE Line To WRE Line To WRE Line To WRE	Terminal Color No. of Wire Signal Name (Specification)	Connector No. M27 Connector Name COMBINATION SWITCH Connector Type TR18FW IT2 13 10	Terminal Color No. of Wire Signal Name [Specification] 1
Connector No. E65 Connector Name DAYTIME RUNNING LIGHT RELAY Connector Type MSORFB-M2 H.S. 15	Terminal Color Signal Name [Specification]	Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW Spin H.S. T 2 3 4 5 6 7 8	Terminal Golor Signal Name [Specification] No. of Wire Signal Name [Specification] 6
Connector No. E46 Connector Name FRONT COMBINATION LAMP RH Connector Type ZOSFGY H.S.	Terminal Codor Signal Name [Specification]	Connector No. E105 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4 LLS	Terminal Color Signal Name [Specification] No. of Wire Specification] No. of Wire Specification] No. of Wire No.
DAYTIME RUNNING LIGHT SYSTEM Commetter No. E45 Connector Name HEADLAMP: Connector Type FHZ0FB Connector Type FHZ0FB	Terminal Color Signal Name [Specification]	Connector No. E100 Connector Name PARKING BRAKE SWITCH Connector Type POIFB-A Light	Terminal Color No. of Wire Signal Name [Specification]

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< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

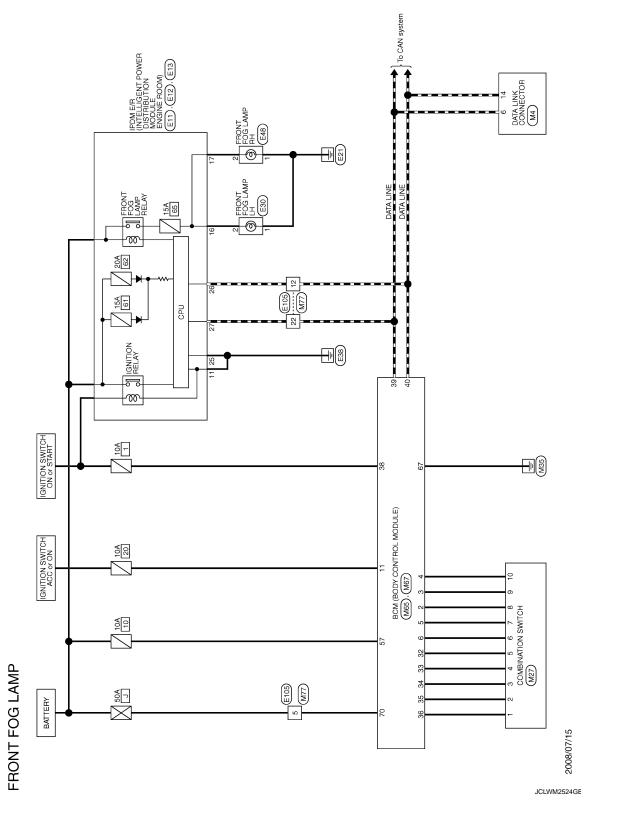
Connector No. M87 Connector Name BGM (BODY CONTROL MODULE) Connector Type FEAU9FB-FHA6-SA LS	Color Signal Name (Specification) G Wire BAT FL BAT FL			A B C
Connector No. Connector Type A.S. H.S.	Terminal 6 No. 57 57 57 70			D
				Е
IGN CAN-H CAN-L				F
33 B C C C C C C C C C C C C C C C C C C				G
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ROL MODULE) To class the state of the state	Signal Name [Specification] INPUT 6 INPUT 4 INPUT 1 INPUT 1 INPUT 1 INPUT 1 OUTPUT 5 OUTPUT 5 OUTPUT 3 OUTPUT 2 OUTPUT 2 OUTPUT 2 OUTPUT 2			I
or No. M65 or Name BCM (BODY CONTROL MODULE) or Type TH40FW-NH 1 [2] 31 4 [6 7 (8) 29 (9) (17) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2				J
Connector No. M65 Connector Name BCM (BODY Connector Type TH40FW-NH (1.2) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Color Color Color			K
				EXL
Connector No. M34 Connector No. M34 Connector No. M34 Connector No. M34 Connector Type SAB40FW M3 M3 M3 M3 M3 M3 M3 M3 M3 M	Signal Name [Specification] CAN-H CAN-L PARKING BRAKE SW	WIRE CSIG-TMA CSIG-TMA Signal Name [Specification]		M
IME RUNNIN No. M34 COMBINATION Type SAB40FW No. No		MMRE TO TH800MW.		Ν
DAYTIME Connector No. Connector Name Connector Type (1.8)	Color Colo	Connector No. Connector Name Connector Type 1.5. 1.5. 1.5. 1.5. 1.5. 1.5. 1.5. 1.		0
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Revision: 2008 August EXL-189 2009 Rogue

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FRONT FOG LAMP SYSTEM

Wiring Diagram - FRONT FOG LAMP -

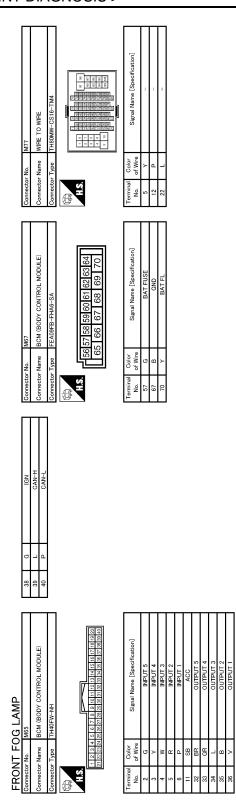


FRONT FOG LAMP SYSTEM

[HALOGEN TYPE]

	eoification.]	2 8 S S	ecification] 2 2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Α
E30 FRONT FOG LAMP LH FROWFE	Color Signal Name [Specification] of Wire B	MZ7 COMBINATION SWITCH TKIGFW 12 13 10 6 9 14 11 1 2 3 4	Color Signal Name [Specification] of Wire Wir		В
Connector No. Connector Name Connector Type H.S.	Co	Connector Na. Connector Type	Deminal Co No. of W N		D
GINE ROOM)	ification)	8 8 8	ification]		Е
E13 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TH12PW-NH 28 27 26 25 24 23 34 33 32 31 30 29	Signal Name [Specification]	M4 BD16-TUNK CONNECTOR BD16FW 9 10 11 12 13 14 15 16 7 8	Signal Name [Specification]		F
r No.	OSION SERVICE	r No.	of Wire		G
Connecto Connecto H.S.	Terminal No. 25 26 26 27 27	Connecto Connecto Connecto H.S.	Terminal No. 9 6 14		Н
FIZE RIVELLIGENT POWER INSUREDITION MODULE ENGINE ROOM) INSUREBR-CS TT T 16 15 22 21 20 19 18	Signal Name [Specification]	TO WRE	Signal Name [Specification]		I
112 PDM E/R (INT ISOBFBR-CS 17 17 17 17 17 17 17 17 17 1	Signa	WIRE TO WIRE THBOFW-CS16-TM4	Signa		J
Connector No. E Connector Type I M.S.	Terminal Color No. of Wire 16 V 17 W	Connector No. Connector Name W Connector Type II	Terminal Color No. of Wire S	,	K
(Woo					EXL
ISTAMP E11 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODILE ENGINE ROOM) MOSFB-LC 11 10 9 14 13 12	Signal Name [Specification]	AMP RH	Signal Name [Specification]		M
OG LAMP E1 IPDM E/R (INT PISTRIBUTTON MOGFB-LC	Sign	E48 FRONT FOG LAMP RH FHZOZFB	Sign		Ν
ONT FC	Terminal Color No. of Wire II B	ector No. ector Type	Color Colo		0
R Somm	E	Comm	اِيَّ مُ	JCLWM2525GE	
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Revision: 2008 August EXL-191 2009 Rogue



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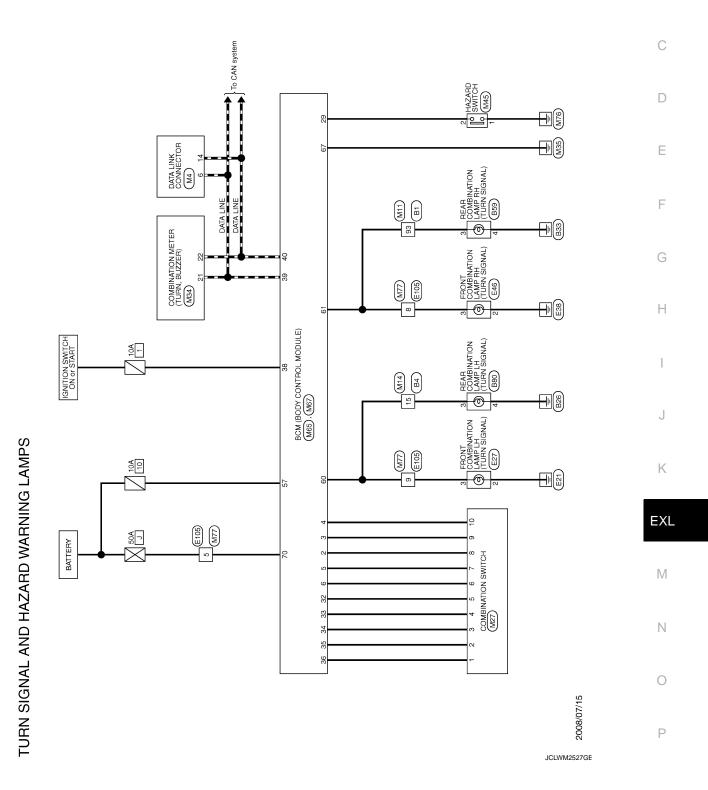
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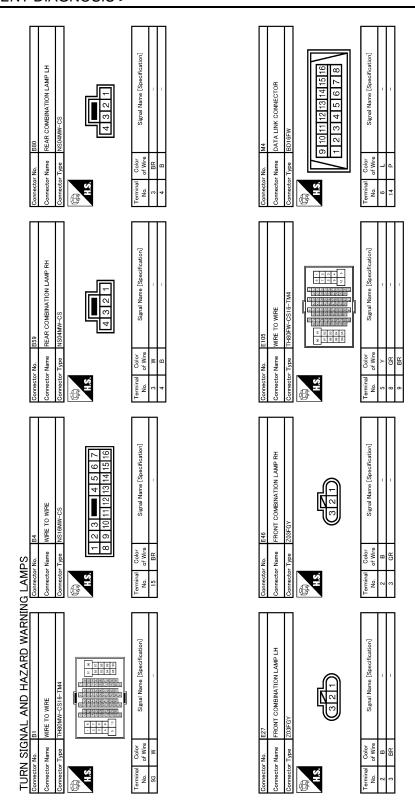
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram - TURN AND HAZARD WARNING LAMPS -



TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

[HALOGEN TYPE]



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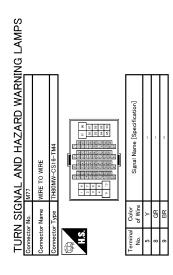
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]

Connector No. M34 Connector Type SAB40FW Connector Type SAB40FW I I Z 3 4 5 8 7 8 P 1011102 3 4 8 1 8 2 8 P 1011102 3 4 9 P 1011102 3 4 P 10	Terminal Color Signal Name [Specification] 21 L CAN+H 22 P CAN+L	Connector No. M67 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEA09FB-FHA8F-SA LIS.	Terminal Color Signal Name Specification Color Signal Name Specification Signal Name Signal Name Specification Specification Signal Name Specification Spe		A B C
Connector No. M27 Connector Name COMBINATION SWITCH Connector Type TKI 6FW (12 13 10 9 8 7 14 11 1 2 3 4 5 6	Terminal Color Signal Name [Specification] 1	38 G IGN 39 L CAAL-H 40 P CAAL-H			E F G
C LAMPS Gornector No. M14 Connector Name WIRE TO WIRE Connector Type NSI IEPW-CS NSI IEPW-CS NSI IEPW-CS NSI IEPW-CS	Terminal Color No of Wire 15 BR	Connector No. M65 Connector Type TH40FW-NH Connector Type TH40FW-NH T. 2 4 5 6 7 8 9 10 11 12 14 15 16 17 18 19 20 11 12 14 15 16 17 18 19 19 18 18 17 18 19 20 10 11 12 14 15 16 17 18 19 20 10 11 12 14 15 16 17 18 19 20 10 11 12 14 15 16 17 18 19 20 10 18 18 17 18 19 20 10 18 18 18 17 18 19 20 10 18 18 18 18 18 18 18 18 18 18 18 18 18	Terminal Color Signal Name [Specification] Color Col		J K
TURN SIGNAL AND HAZARD WARNING LAMPS Connector No. MII Connector Name Connector Name Connector Name Connector Type TH60FW-CSI6-TM Connector Type TH60FW-CSI6-TM Connector Type TH60FW-CSI6-TM TH60FW-CSI6-TM TH60FW-CSI6-TM	Terminal Color No. of Wire Signal Name [Specification] 93 GR	Connector No. M45 Connector Name HAZARD SWITCH Connector Type TKMFW H.S.	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 1 B	JCLWM2529GE	M N
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Revision: 2008 August EXL-195 2009 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:0000000004539409 В PARKING (SIDE MARKER) C 0 D Е PARKING (SIDE MARKER) IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E11) · (E13) · (E14) F 0 10A 45 TAIL LAMP RELAY 21 22 COMBINATION METER (TAIL LAMP) 10A 46 Н ത 20A 62 CPU 15A 61 J

E109

GNITION

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E105 M77

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PARKING, LICENSE PLATE AND TAIL LAMPS

IGNITION SWITCH ON or START

IGNITION SWITCH ACC or ON

BATTERY

DATA LINK CONNECTOR (M4)

COMBINATION SWITCH

M13

FRONT DOOR SWITCH (DRIVER SIDE)

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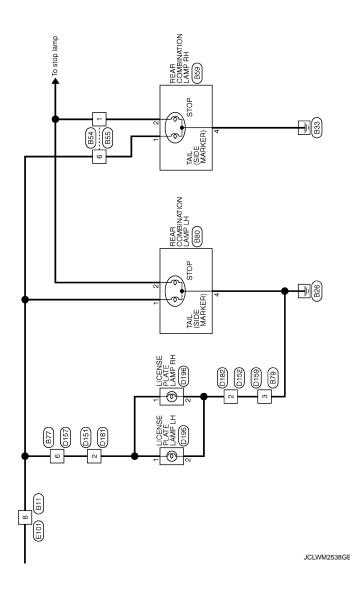
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BCM (BODY CONTROL MODULE)
(M65), (M66), (M67)



< COMPONENT DIAGNOSIS >

Connector No. B54		Color No. O'lor Signal Name [Specification]	Connector No. B79 Connector Name WIRE TO WIRE Connector Type MO4MW-LC 1.2 1.2 3.4	Terminal Golor Signal Name [Specification] 3 B		A B C
Connector No. B34	e FRONT DOOR SWITCH (DRIVER SIDE) a A03FW 1 2 3	Terminal Color No. of Wire Signal Name [Specification]	Connector No. 877 Connector Name WIRE TO WIRE Connector Type NS10MW-CS L 2	Terminal Color No. of Wire Signal Name [Specification]		E F G
LAMPS Connector No. 1811	Connector Name Connector Type H.S.	Terminal Color No. of Wire Signal Name [Specification] 8 R. –	Connector No. BEAR COMBINATION LAMP RH Connector Type NSOMWW-CS 1.5. 1.5. 1.5. 1.5. 1.5. 1.5. 1.5. 1.6. 1.7. 1.7. 1.7. 1.8.	Terminal Color Signal Name Specification No.		J K
PARKING, LICENSE PLATE AND TAIL	Connector Name WIRE TO WIRE Connector Type TH32RMY-NH H.S. 1 Z 3 4 5 6 7 8 9 10 11 12 3 4 15 6 17 2 3 4 5 6 7 8 9 10 11 12 3 14 15 6 17 2 3 4 5 6 7 8 9 10 11 12 3 14 15 6 17 2 3 4 5 6 7 8 9 10 11 12 3 14 15 6 18 19 20 21 22 22 24 25 25 25 25 25	Terminal Color Signal Name [Specification] 15 P	Connector No. 855 Connector Name WIRE TO WIRE Connector Type NIS12FW-CS #\$\$ 5 4	Terminal Color Signal Name [Specification] 1	JCLWM2539GE	M N
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EXL-199 Revision: 2008 August 2009 Rogue

[HALOGEN TYPE]

[HALOGEN TYPE]

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Connector No. B80	Connector No. D151	Connector No. D152	Connector No. D157
Connector Name REAR COMBINATION LAMP LH	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE
Connector Type NS04MW-CS	Connector Type NS08FBR-CS	Connector Type M02FW-GY-LC	Connector Type NS10FW-CS
E	E	匮	E
4321	3 <u>3 2 1</u> 8 7 6 5 4	***	HS. 4 3 2 1 10 9 8 7 6 5
Terminal Color Nu. of Wire Signal Name [Specification]	Terminal Color No. of Wire Signal Name [Specification] 2 R	Terminal Color Signal Name [Specification] No. of Wire 2 B	Terminal Color Signal Name [Specification] No. of Wire 6 R
Connector No. D159	Connector No. D181	Connector No. D182	Connector No. D195
Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name LICENSE PLATE LAMP LH
Connector Type M04FW-LC	Connector Type NS08MBR-CS	Connector Type M02MW-GY-LC	Connector Type TK02FBR
H.S.	HS. 12 12 14 5 6 7 8	-Z 8'H	H.S.
Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Golor Signal Name [Specification]	Terminal Color Signal Name [Specification] No. of Wire
3 B -	2 R -	2 B -	1 R

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< COMPONENT DIAGNOSIS >

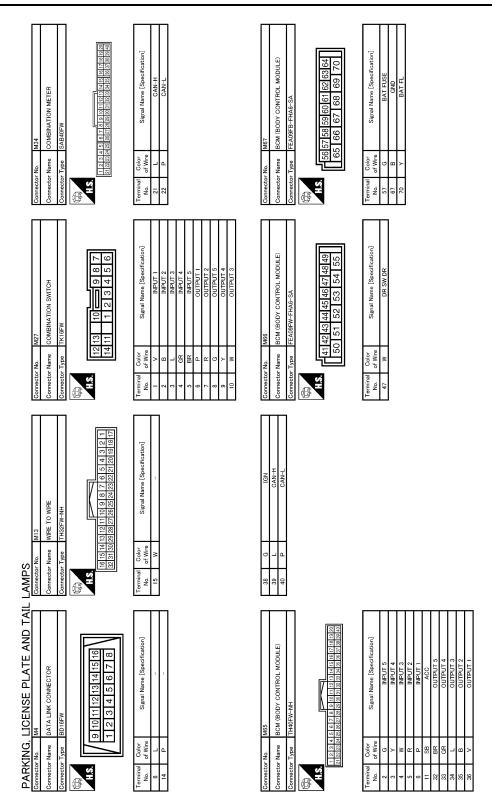
[HALOGEN TYPE]

Connector No. E14 Connector Name IPDM E/R (INTELLIGENT POWER DOCUMENT OF NOTIZEBR-CS NSTZFBR-CS MS1ZFBR-CS 139 88	of Wire Signal Name [Specification] R	Cornector Name WIRE TO WIRE Connector Type IH80FW-CS16-TM4		A B C
Connector No. Connector Na. Connector Typ	Terminal No. 37 37 38 39	Commetton Commetton Commetton No. 12 12 22 22		D
E ENGINE ROOM)	peofication)	Specification]		Е
E13 IDDM E-R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) THIZPW-NH	Signal Name [Specification]	Signal Name		F
و ا و	Color of Wire	a la		G
Connector No. Connector Name Connector Type H.S.	Terminal No. 25 26 26 27	Connector No. Commetter Type Commetter Type No. Of With		Н
E11 IDDM E/R UNTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) MOGFB-LC 11 10 9 14 13 12	Signal Name [Specification]	E46 FRONT COMBINATION LAMP RH Z03FGY Signal Name [Specification]		I
16.PR (INTELLIGE RIBUTION MODU 18-LC 11 10 9	Signal N	Signal N		J
Connector No. E11 Connector Name 192N Connector Type M056 H.S.	Terminal Color No. of Wire 11 B	Connector No. E46 Connector Name FRONT Connector Type (2096) Terminal Color I GR 1 GR	_	K
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PARKING, LICENSE PLATE AND TAI Commercion No. D199 Commercion Name LICENSE PLATE LAMP RH LICENSE PLATE LAMP RH LICENSE TROOFFIR LICENSE PLATE LAMP RH LICENSE TROOFFIR LICENSE T	Signal Name [Specification]	FRONT COMBINATION LAMP LH 203FGY Signal Name [Specification]		M
LICENSE I TROZEBR		FRONT C		Ν
PARKING, Connector Name Connector Type Connector Type H.S.	Color Color No. Of Wire	Connector Name Connector Type Terminal Color No. 6 Wire 1 R 2 B 2 B		0
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Revision: 2008 August EXL-201 2009 Rogue

< COMPONENT DIAGNOSIS >

[HALOGEN TYPE]



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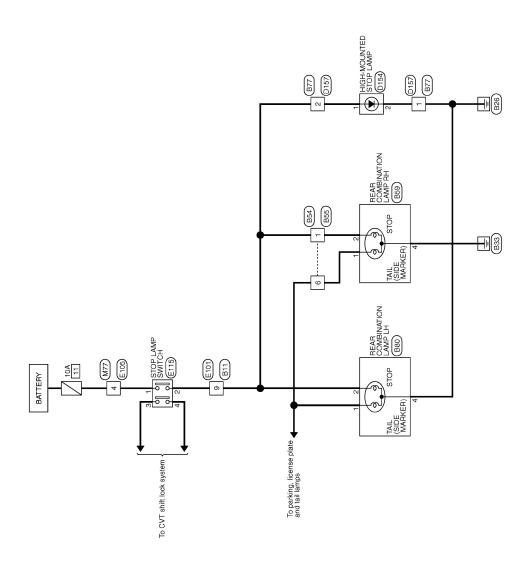
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Connector No. M77 Connector Type TH80MW-CS16-TM4 TH80MW-CS16-TM4 Terminal Color Color	IL LAMPS								
PARKING, Connector No. Connector Name Connector Type Terminal Color No. of Wire 5 Y 722	LICENSE PLATE AND TAI	M77	WIRE TO WIRE	TH80MW-CS16-TM4	1 1 1 1 1 1 1 1 1	Signal Name [Specification]	1	1	
PARK Connector Connector Connector No. 12 12 12	(ING.	· No.	Name	Type		Color of Wire	>	۵	-
	PARK	Connector	Connector	Connector	H.S.	Terminal No.	2	12	22

STOP LAMP

Wiring Diagram - STOP LAMP -

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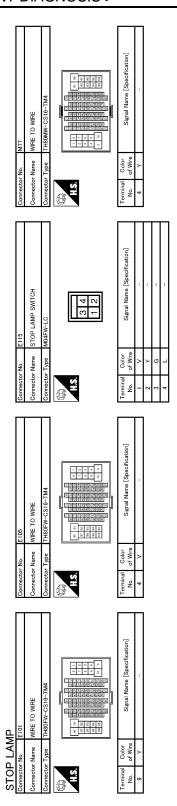


STOP LAMP



2009 Rogue

Connector No. B59 Connector Name REAR COMBINATION LAMP RH Connector Type NSD4MW-CS H.S.		Connector No. D157 Connector Name WRE TO WRE Connector Type NS10FW-05 LS 4 3 2 1 10 9 8 7 6 5	O o of Wire Signal Name (Specification) Signal Name (Specification)		A B C
Connecto Connecto The Connecto Connecto The	n] No. 1 Perminal No. 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Conne	Terminal No.		D E
B85 WIRE TO WIRE NSIZEW-CS 5 4	Signal Name (Specification)	D154 HIGH-MOUNTED STOP LAMP TROZEW 21	Signal Name [Specification]		F
Connector No. B Connector Type N. Connector Type	Terminal Goldr No. of Wire V	Connector No. D	Terminal Color No. 1 V 2 B		G H
MINE TO WIPE NSI ZAMV-CS 1 2 3	Signal Name [Specification]	PERO INSOLAMINATION LAMP LH INSOLAMIN-CS	Signal Name [Specification]		J
Gonnector No Connector Name WIRI Connector Type NSI H.S.	Color No. of Wire 1 V V V V V V V V V V V V V V V V V V	Connector No. B80 Connector Name REA Connector Type NSD	Color Color No of Wire		К
P B11 WIRE TO WIRE THEORYW-CS16-TM4 THEOR	Signal Name (Specification)	NSTOMM-GS 1 2	Signal Name [Specification] -		M N
STOP LAMP Connector Name WIRI Connector Type THB H.S.	Terminal Color No. of Wire 9	Connector No. B77 Connector Name WIRR Connector Type INSII	Terminal Color No. of Wire 2 Y Y	JCLWM2532GE	0
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BACK-UP LAMP

Wiring Diagram - BUCK-UP LAMP -

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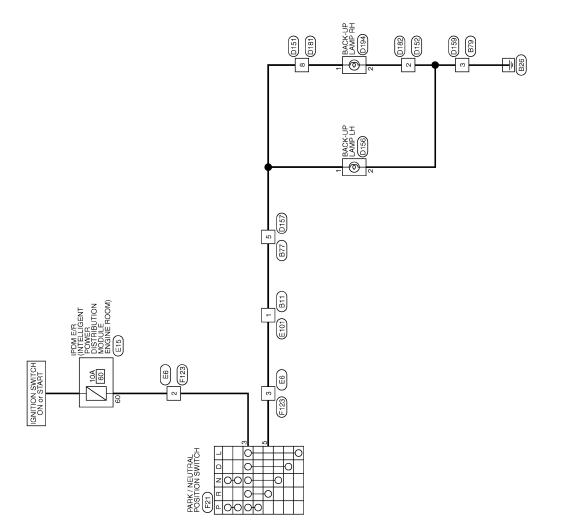
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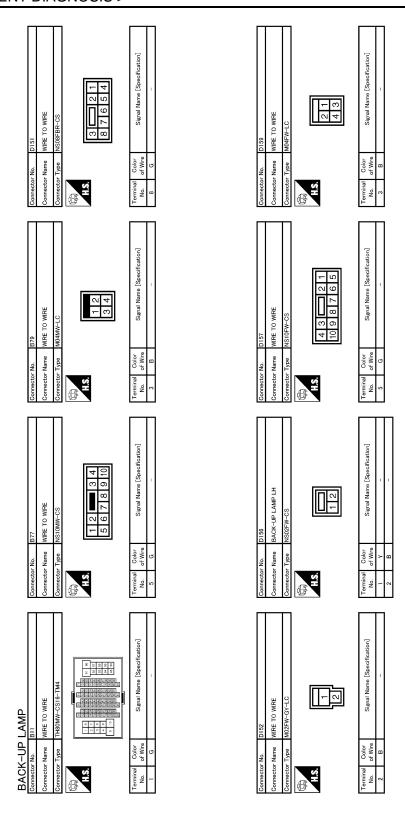
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BACK-UP LAMP



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7 8 9 10 11 20 21 22 23 24	Signal Name [Specification]	WRE 1V 10 18 17 16 15 14 13 12 Signal Name [Specification]		A
E6 WIRE TO WIRE TK24MW-1V	G Wiles	F123 MIPE TO 10 9 8 7 10 9 8 7 Mine Mine Mine Mine Mine Mine Mine Mine		С
Connector No. Connector Name Connector Type H.S. H.2	Terminal No.	Connector No. Connector Name Connector Type [11] [24] [24] [28] [28] [28] [28] [29] [29] [29] [20] [20] [20] [20] [20] [20] [20] [20		D
	cification)	offication]		Е
D194 BACK-UP LAMP RH NS02FW-CS	Signal Name (Specification)	PROBFIG RECORT ON EUTRAL POSITION SWITCH RECORT OF 4 8 6 1 2 3 3 5 5 1 2 3 5 5 1 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		F
	Color of Wire B			G
Connector No. Connector Name Connector Type	Terminal No. 1	Connector No. Connector Type Connector Type H.S. H.S. H.S. Golor Olor Olor S S S S S G G Connector No. S S S S S S S S S S S S S S S S S S		Н
D182 WIRE TO WIRE M02MW-GY-LC	Signal Name [Specification]	E101 TH80FW-CS16-TM4 T		J
Connector No. D182 Connector Name WIRE Connector Type M02M	Terminal Color No. of Wire 2 B	Connector No. E101 Connector Name WIRE Connector Type TH80F No. of Wire No. of Wire No. of Wire	_	К
				EXL
IRE CS	Signal Name (Specification)	E15 IPOM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) NS16FW-CS 52 51 50		M
DISI WHE TO WIRE NSOBMBR-CS 1 2 1 2 1 5 1				Ν
BACK-UP LAMP Commettor No. D181 Commettor Name WIRE TO W Commettor Type INSOBMBR-	Terminal Golor No of Wiree 8 G	Connector No Connector Name Connector Type Connecto		0
			JCLWM2536GE	Р

Revision: 2008 August EXL-209 2009 Rogue

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGIN OIN SW	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
KET 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 LINI OCK SW	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
DOOK SW-DK	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	Press door lock/unlock switch to the lock side Door lock/unlock switch does not operate Press door lock/unlock switch to the unlock side Driver's door closed Driver's door opened Passenger door closed Passenger door closed Passenger door opened Rear RH door closed Rear RH door opened Rear LH door opened Rear LH door opened Rear LH door opened Rear LH door opened OR SW Diver door key cylinder LOCK position Driver door key cylinder UNLOCK position Driver door key cylinder UNLOCK position UNLOCK "LOCK" button of key fob is not pressed "UNLOCK" button of key fob is pressed "LOCK" button of lntelligent Key or door request switch are not pressed	Off
DOOK SW-KK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
BACK DOOD SW	Back door closed	Off
BACK DOOR SW	Back door opened	On
KEN CALLIX CM	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTL UN-SW	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
RETLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK		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
ACC ON 0147	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OVA	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LICHT SWAST	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

[HALOGEN TYPE] < ECU DIAGNOSIS >

ECU DIAGNOSIS		[HALOGEN TIFL]
Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
SOOKEE OVV	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
(EYLESS 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
THE LON-ONLON	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
II DE AM CVA	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
IEAD LAND OW	Lighting switch OFF	Off
HEAD LAMP SW 1	UNLOCK button of key fob is pressed and held Lighting switch OFF Lighting switch OFF Lighting switch 2ND Lighting switch OFF Lighting switch 2ND NOTE: The item is indicated, but not monitored. Other than lighting switch PASS Lighting switch OFF Front fog lamp switch ON NOTE: The item is indicated, but not monitored.	On
IEAD LAMB OW	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW		Off
PASSING SW	Other than lighting switch PASS	Off
ASSING SW	Lighting switch PASS	On
-D	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW		Off
FUEN CIONAL E	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONIAL I	Turn signal switch OFF	Off
URN SIGNAL L	Turn signal switch LH	On
NOINE DUN	Engine stopped	Off
ENGINE RUN	Engine running	On
DVD CW/	PANIC button of key fob is pressed NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored. LOCK/UNLOCK button of key fob is not pressed and held simultaneously LOCK/UNLOCK button of key fob is pressed and held simultaneously UNLOCK button of key fob is pressed and held Lighting switch OFF Lighting switch PASS Lighting switch PASS Lighting switch PASS Front fog lamp switch OFF Front fog lamp switch OFF Turn signal switch OFF Turn signal switch OFF Turn signal switch DFF Turn signal switch DFF Turn signal switch DFF Turn signal switch DFF Turn signal switch OFF Turn signal switch DFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW		Off
OPTICAL SENSOR		0 V
CN SW CAN	Ignition switch OFF or ACC	Off
GN SW CAN	Ignition switch ON	On
	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
	Front wiper switch OFF	Off On Off Off
FR 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
ED WASHED SW	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 STOD	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 WIDED ON	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:	0#
RR WIPER 51P2	The item is indicated, but not monitored.	Oli
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
HAZADD CM	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
DDAKE OM	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
EAN ON CIC	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
ALD COMP 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
	UNLOCK button of Intelligent Key is not pressed	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
LIVEY BANIO	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC	PANIC button of Intelligent Key is pressed	On
DUOLL OW	Return to ignition switch to "LOCK" position	1 - 7 Off On Equivalent to speedometer read Off On Off Off
PUSH SW	Press ignition switch	On
TDAIK ODAID OM	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 DECST EL 1	ID of front LH tire transmitter is registered	Done
ID REGGI FLI	REGST FL1 ID of front LH tire transmitter is registered ID of front LH tire transmitter is not registered	
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	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 REGST RET	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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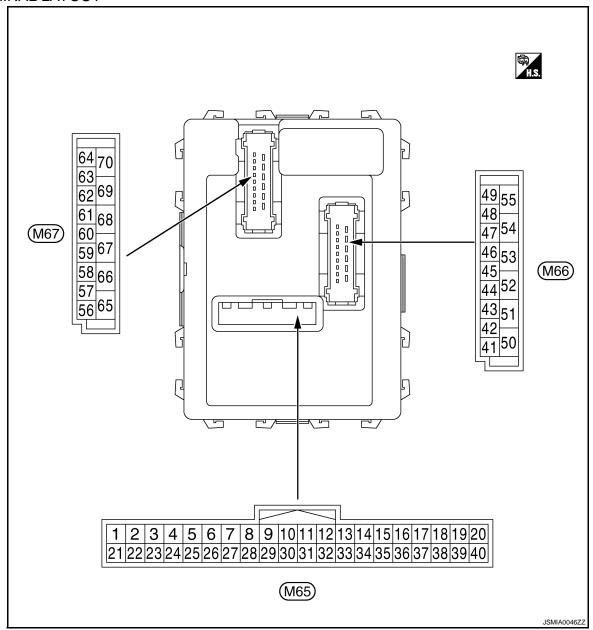
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TERMINAL LAYOUT



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-27, "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				
	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. Description (Wire color)					Value			
+	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)		
					All switch OFF	0 V		
				Turn signal switch RH				
					Lighting switch HI	(V) 15 10		
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 1ST	10 5 0 +-10ms PKIB4959J 1.0 V		
(-)					Lighting switch 2ND	(V) 15 10 5 0 +-10ms PKIB4953J		
					All switch OFF	2.0 V 0 V		
					Turn signal switch LH			
					Lighting switch PASS	(V) 15 10		
3 (Y)	Ground	Ground	Combination switch INPUT 4	Input	Combination switch	switch	Lighting switch 2ND	10 5 0 +-10ms PKIB4959J 1.0 V
(')		tent dial 4)	(Wiper intermit- tent dial 4)	(wiper intermit-	Front fog lamp switch ON	(V) 15 10 5 0 +-10ms PKIB4955J		
					All switch OFF	0.8 V 0 V		
					Front wiper switch LO			
				0	Front winer switch MIST	(V)		
4 (W)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch INT	(V) 15 10 5 0 •••10ms		
						1.0 V		

< ECU DIAGNOSIS > [HALOGEN TYPE]

	nal No. color)	Description	ı	Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	(V) 15
					Rear washer ON (Wiper intermittent dial 4)	10 5 0
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	++10ms PKIB4959J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0
						РКIВ4955J 0.8 V
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(<u>V)</u>
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5 0
					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 • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 10 ++10ms PKIB4952J 1.7 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 **+10ms PKIB4955J 0.8 V

< ECU DIAGNOSIS >

[HALOGEN TYPE]

	inal No. e color)	Description			Condition	Value
+	-	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 cylinder switch	NEUTRAL position	(V) 15 10 5 0 + 10ms JPMIA0587GB
					LOCK position	8.0 - 8.5 V 0 V
9				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 Battery voltage
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed) ON (When passenger door opened)	(V) ₁₅ 10 5 0 +-10ms JPMIA0586GB 7.5 - 8.0 V
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed) ON (When rear door RH opened)	(V) 15 10 5 0 *** 10ms JPMIA0587GB 8.0 - 8.5 V

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
15 [*] (O)	Ground	Tire pressure warn- ing check switch	Input	Ignition switch O	FF	(V) 15 10 5 0 JPMIA0588GB 1.5 V
18 [*] (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 [*] (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
					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 JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
20 [*] (GR)	Ground	Remote keyless en- try receiver signal	Input		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	JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	Battery voltage

< ECU DIAGNOSIS > [HALOGEN TYPE]

	nal No.	Description	1			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 JPMIA0590GB 12.0 V
					OFF	Battery voltage
25 (BR)	Ground	Immobilizer antenna signal (Rx, Tx)	Input/ Output	Ignition switch O	FF	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 JPMIA0591GB 1.6 V
					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 JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)	Cicana		mpat		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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	nal No.	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	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		Combination switch		Combination	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
(GR)	Ground	OUTPUT 4	Output	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]

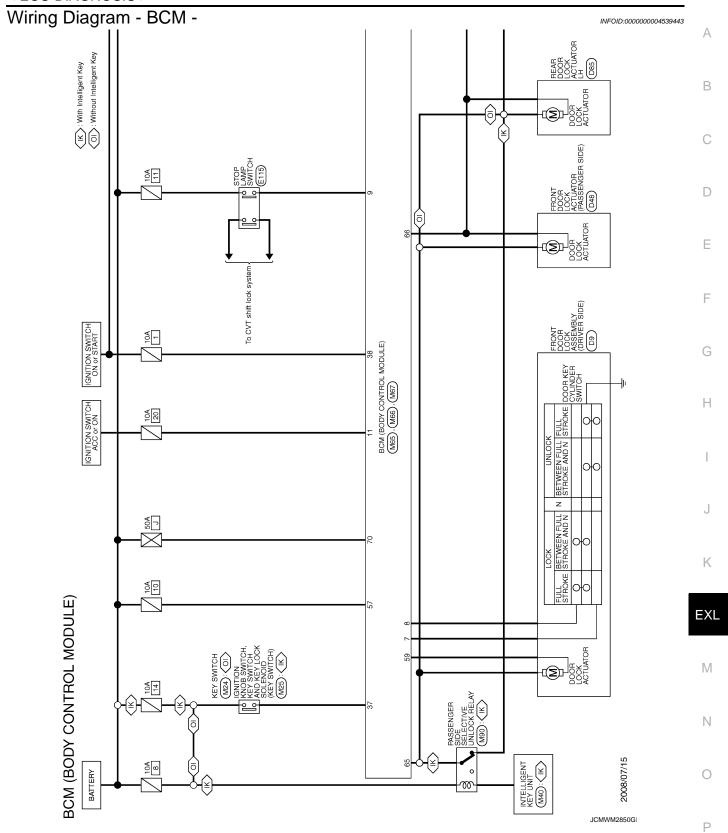
	nal No.	Description				Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V	
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)		
					Lighting 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 intermit- tent dial 4)	Lighting switch 2ND	W	
				,	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)	Ground	Combination switch OUTPUT 1	Output	Combination switch (Wiper intermit- tent 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	

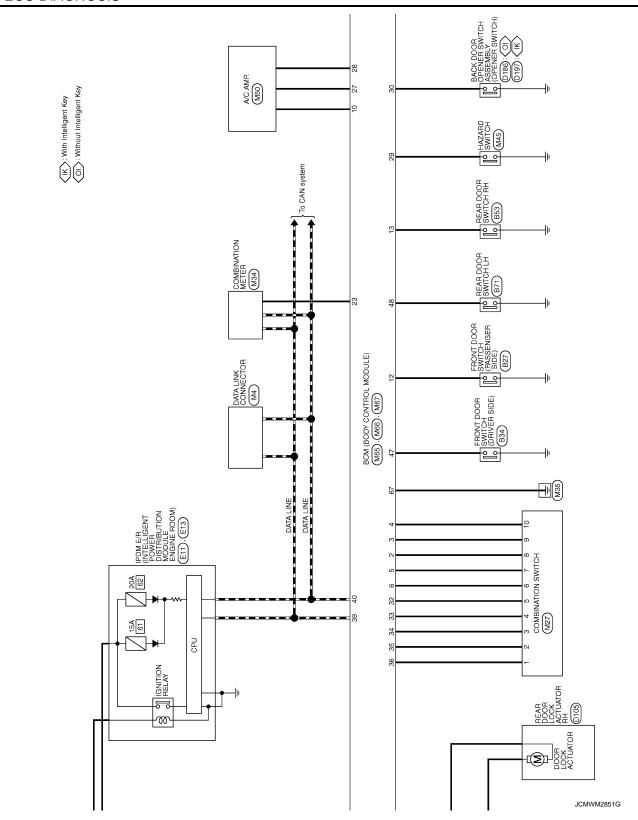
+ - Signal name Output Output (Approx.) 37 (LG) Ground (Key switch Input (Remove mechanical key into ignition key cylinder Remove mechanical key from ignition key cylinder Over Signal (Remove mechanical key from ignition key cylinder Over Signal (Remove mechanical key from ignition key cylinder Over Signal (Remove mechanical key from ignition key cylinder Over Signal (Remove mechanical key from ignition key of the Remove mechanical key into ignition key of the State in the Input	Termin (Wire			escription			On a dition	Value
Ground G	,	-		name	Input/ Output		Condition	
Remove mechanical key from ignition key cylinder Remove mechanical key from ignition key cylinder 0 V		Ground	ound Kev switch		der		al key into ignition key cylin-	Battery voltage
Ground Ignition switch ON Input Ignition switch ON or START Battery voltage	(LG)	Cround	Troy emion		mpat		nical key from ignition key	0 V
Ignition switch ON or START Battery voltage		Ground	ound lanition swi	tch ON	Input	_		0 V
(L) Ground CAN-H Output — — — — — — — — — — — — — — — — — — —		0.044	.g			Ignition switch O	N or START	Battery voltage
Ground Back door switch Input Back door switch Input Back door switch OFF (When back door closed) OFF (When back door closed) OFF (When back door opened) O V ON (When back door opened) ON (When back door ope		Ground	ound CAN-H				_	_
Ground Back door switch Input Back door switch Input Back door switch OFF (When back door closed) OFF (When back door closed) ON (When back door opened) Any position other than rear wiper stop position Battery voltage OFF (When back door closed) ON (When back door opened) NEUTRAL position OV NEUTRAL position OFF (When back door closed) ON (When back door opened) NEUTRAL position ON (NO (NO (NO (NO (NO (NO (NO (NO (NO (Ground	ound CAN-L				_	_
(When back door opened) Rear wiper stop position O V Any position other than rear wiper stop position Battery voltage O V Door lock and unlock switch LOCK signal Door lock switch LOCK signal Door lock and unlock switch NEUTRAL position NEUTRAL position 1.6 V		Ground	ound Back door s	switch	Input			10 5 0 + 10ms JPMIA0593GB
44 (B) Ground Rear wiper auto stop Input Input Input Any position other than rear wiper stop position 45 (P) Ground Door lock and unlock switch LOCK signal Input								0 V
(B) Ground Real wiper auto stop Imput ON Any position other than rear wiper stop position Battery voltage V	44					lanition switch		0 V
Ground Door lock and unlock switch LOCK signal Input Door lock and unlock switch Door lock and unlock switch NEUTRAL position 10 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Ground	ound Rear wiper	auto stop	Input			Battery voltage
LOCK position 0 V		Ground			Input		NEUTRAL position	10 0 → •10ms JPMIA0591GB
							LOCK position	0 V
Ground Ground Barbara		Ground	ound switch UNL		Input		NEUTRAL position	10 0 → •10ms JPMIA0591GB
UNLOCK position 0 V							UNLOCK position	

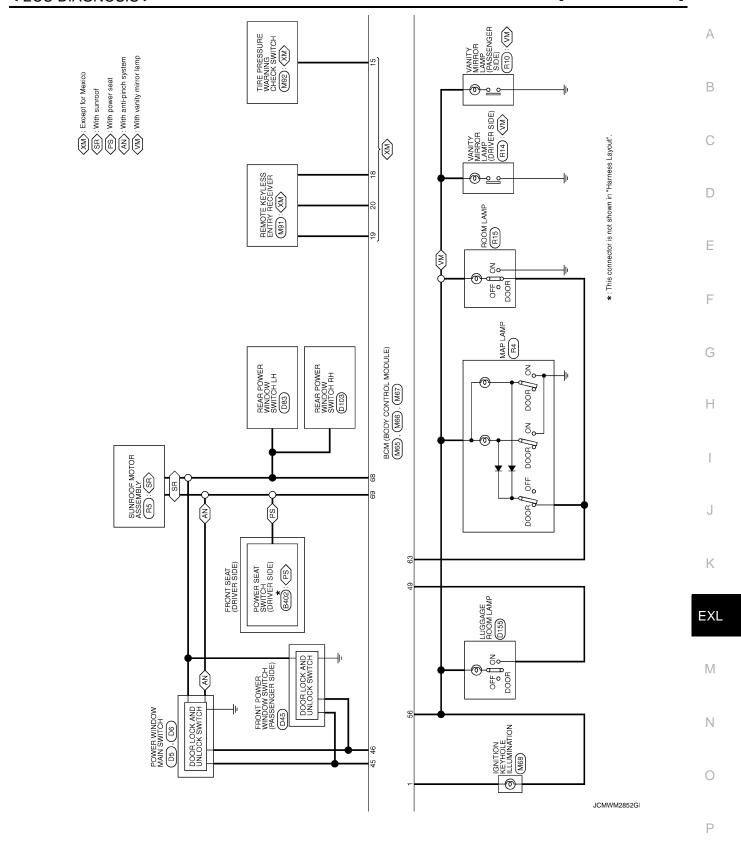
Terminal No. Description (Wire color)		0		Value		
+	-	Signal name	Input/ Output		Condition	(Approx.)
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 PMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) ₁₅ 10 5 0 **•10ms
					ON (When rear door LH opened)	8.5 - 9.0 V 0 V
49	Ground	Back door lamp con-	Output	Back door lamp 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)	Ciound	Baok addi open	Caput	opener switch	Pressed (Back door actuator is activated)	Battery voltage
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF	0 V
56		Interior room lamp			Rear wiper switch ON e interior room lamp battery time	Battery voltage 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)	Ground	LOCK	Output	Dilver door	Other then UNLOCK (Actuator is not activated)	0 V

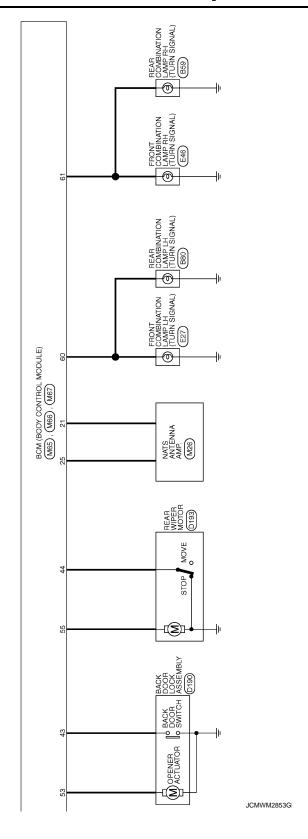
	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s PKIC6370E
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 1s 1s PKIC6370E 6.0 V
63	Cround	Interior room lamp	Outrout	Interior room	OFF	Battery voltage
(R)	Ground	timer control	Output	lamp	ON	0 V
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	Ground	All doors Look	Output	All doors	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 ON		0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch O	FF	Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage

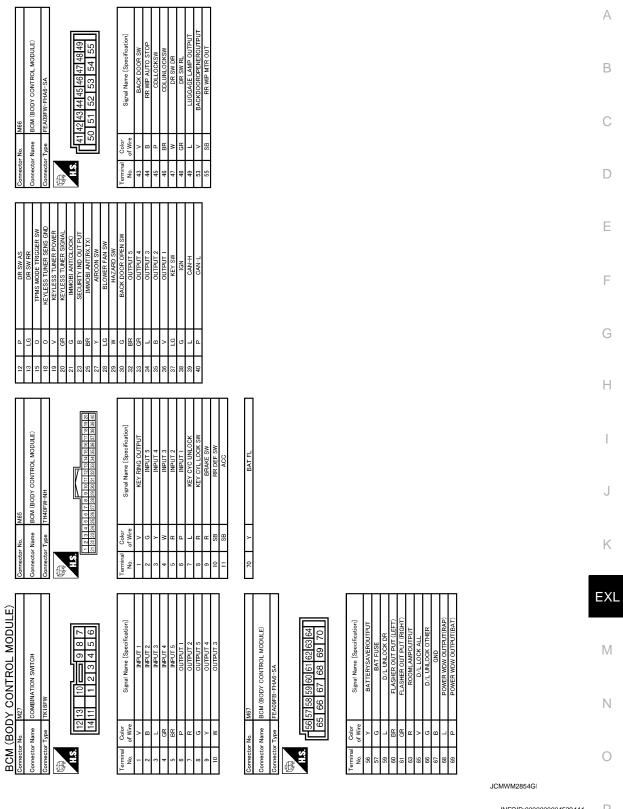
^{*:} Except for Mexico











Fail-safe INFOID:0000000004539444

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position 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 the 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:0000000004539445

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	C1704: LOW PRESSURE FL C1705: LOW PRESSURE RR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PCESS DATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR 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.

CONSULT display	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	<u>BCS-35</u>

< ECU DIAGNOSIS > [HALOGEN TYPE]

CONSULT display	Tire pressure monitor warning lamp ON	Reference	
C1704: LOW PRESSURE FL	×		
C1705: LOW PRESSURE FR	×	WT-15	
C1706: LOW PRESSURE RR	×	<u>W1-15</u>	
C1707: LOW PRESSURE RL	×		
C1708: [NO DATA] FL	×		
C1709: [NO DATA] FR	×	WT 47	
C1710: [NO DATA] RR	×	<u>WT-17</u>	
C1711: [NO DATA] RL	×		
C1712: [CHECKSUM ERR] FL	×		
C1713: [CHECKSUM ERR] FR	×	WT 00	
C1714: [CHECKSUM ERR] RR	×	<u>WT-20</u>	
C1715: [CHECKSUM ERR] RL	×		
C1716: [PRESS DATA ERR] FL	×		
C1717: [PRESS DATA ERR] FR	×	WT-23	
C1718: [PRESS DATA ERR] RR	×	<u>VV 1-23</u>	
C1719: [PRESS DATA ERR] RL	×		
C1720: [CODE ERR] FL	×		
C1721: [CODE ERR] FR	×	WT-25	
C1722: [CODE ERR] RR	×	<u>vv 1-25</u>	
C1723: [CODE ERR] RL	×		
C1724: [BATT VOLT LOW] FL	_		
C1725: [BATT VOLT LOW] FR	_	WT 00	
C1726: [BATT VOLT LOW] RR	_	<u>WT-28</u>	
C1727: [BATT VOLT LOW] RL	_		
C1729: VHCL SPEED SIG ERR	×	<u>WT-31</u>	
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	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&CLR REQ	Lighting switch OFF	Off		
TAILAGEN NEQ	Lighting switch 1ST or 2NI	0	On	
HL LO REQ	Lighting switch OFF		Off	
IL LO REQ	Lighting switch 2ND	On		
111 111 DEO	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	Front fog lamp switch ON	On	
		Front wiper switch OFF	Stop	
50 W/D D50	Inviting assistate ON	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 our is pushed	tside the vehicle, and the push switch	Off	
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is ins pushed	When Intelligent Key is inside the vehicle, and the push switch is		
IGN RLY	Ignition switch OFF or ACC		Off	
ION INC.	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	
OIL D CW	Ignition switch OFF, ACC of	or engine running	Open	
OIL P SW	Ignition switch ON		Close	
DTRL REQ	Daytime running light syste	em is not operated.	Off	
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light syste	em is operated.	On	

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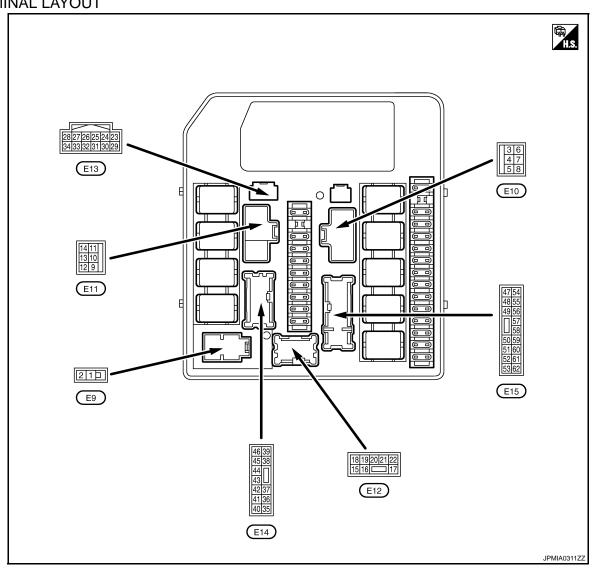
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< ECU DIAGNOSIS > [HALOGEN TYPE]

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
HORN CHIRP	Not operation	Off
HORN CHIRF	Horn is activated with key fob LOCK operation.	On

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No.	Description			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	

Revision: 2008 August EXL-233 2009 Rogue

[HALOGEN TYPE] < ECU DIAGNOSIS >

	nal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	
3	Cround	Charter relevine succession average	Outrout	When engine is clar	iking	Battery voltage
(O)	Ground	Starter relay power supply	Output	When engine is not clanking		0 V
4	0	Cooling fan relay-1 power	0 1 1	Cooling fan opera-	OFF	0 V
(W)	Ground	supply	Output	tion	MID or HI	Battery voltage
5	0	Leading and Male OTA DT	1	Ignition switch OFF,	ACC or ON	0 V
(R)	Ground	Ignition switch START	Input	Ignition switch STAF	RT	Battery voltage
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7	Cround	Cooling fan motor-2 (HI)		Cooling fan opera-	OFF	Battery voltage
(P)	Ground	ground	_	tion	HI	0 V
8	0	Cooling fan relay-2 power	0	Cooling fan opera-	OFF	0 V
(G)	Ground	supply	Output	tion	HI	Battery voltage
11 (B)	Ground	Ground	_	Ignition switch ON		0 V
12	Cround	Rear window defogger re-	Output	Ignition quitab ON	Rear window defogger switch OFF	0 V
(O)	Ground	lay power supply	Output	Ignition switch ON	Rear window defogger switch ON	Battery voltage
15 ^{*1}	0	Daytime running light relay	0	Daytime running	Not operated	Battery voltage
(SB)	Ground	control	Output	light system	Operated	0 V
16 ^{*2}	Cround	Front for James (LLI)	Outrout	Lighting switch	Front fog lamp switch OFF	0 V
(Y)	Ground	Front fog lamp (LH)	Output	2ND	Front fog lamp switch ON	Battery voltage
17 ^{*2}	0	Front to a large (DU)	Lighting switch Front fog lamp switch O	Front fog lamp switch OFF	0 V	
(W)	Ground	Front fog lamp (RH)	Output	2ND		
18	Cround	Haadlama I O (I H)	Output	Lighting switch OFF		0 V
(L)	Ground	Headlamp LO (LH)	Output	Lighting switch 2ND		Battery voltage
20	Cround	Headlers LO (DLI)	Outrout	Lighting switch OFF		0 V
(SB)	Ground	Headlamp LO (RH)	Output	Lighting switch 2ND		Battery voltage
				Lighting switch OFF		0 V
21 (G)	Ground	Headlamp HI (LH)	Output	Lighting switch 2NLighting switch PA		Battery voltage
				Daytime running ligh	nt system Operated*1	7.0 V
				Lighting switch OFF		0 V
22 (LG)	Ground	Headlamp HI (RH)	Output	Lighting switch 2NLighting switch PA		Battery voltage
				Daytime running ligh	nt system Operated*1	7.0 V
23	C=2	Oil progress swit-b	lan:-t	Ignition switz-1- ON	Engine stopped	0 V
(W)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine running	Battery voltage
0.4					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		_	_

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< ECU DIAGNOSIS > [HALOGEN TYPE]

	nal No. color)	Description		_	S 10.0	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
27 (L)	_	CAN-H	Input/ Output		_	_
31	Ground	Cooling fan relay-4 control	Output	Cooling fan opera-	OFF	Battery voltage
(LG)	Ground	Cooling fair relay-4 control	Output	tion	LO	0 - 1.0 V
32		Throttle control motor re-			kimately 2 seconds or more tion switch from ON to OFF	Battery voltage
(V)	Ground	lay control	Input	Ignition switch ON For approximately tion switch from O	2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input		Engine stopped	Battery voltage
(OIV)				Ignition switch ON	Engine running	0.8 V
34 ^{*3}				Close the hood	I	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 Ignition switch ON		0 V
(BR)	Ground	Ignition relay power supply	Output			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 switch OFF	0 V
(L)	Ground	Front wiper HI	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	Outout	Ignition switch OF After passing appr after turning the ig	oximately 1 second or more	0 V
(W)	Ground	supply	Output	For approximately 1 second after turning the ignition switch ON Engine running		Battery voltage
47					kimately 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 tion switch from O	4 seconds after turning igni-	Battery voltage
48					kimately 4 seconds or more tion switch from ON to OFF	0 V
48 (R)	Ground	ECM relay power supply	Output	Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage

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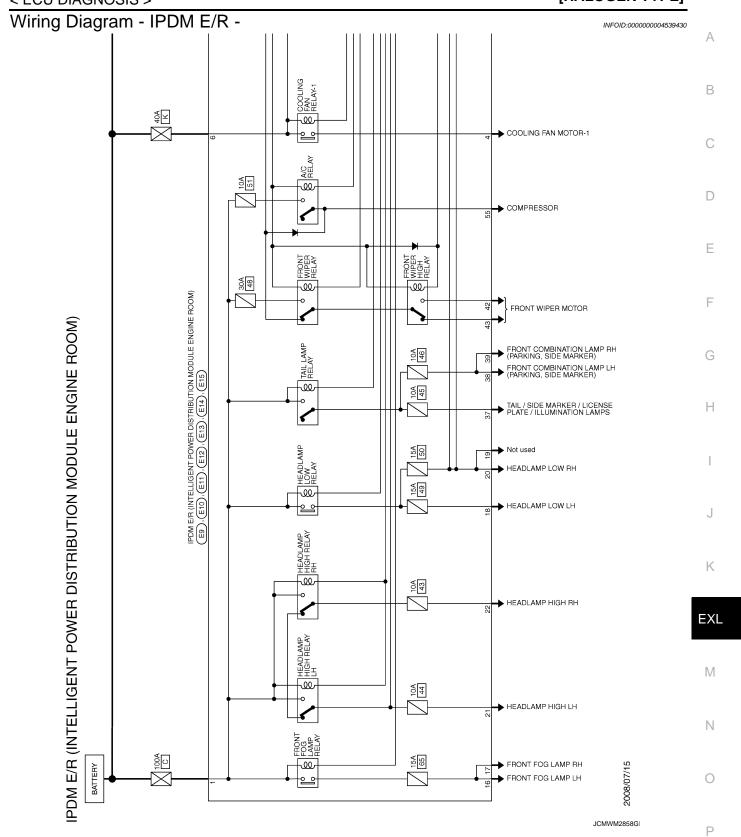
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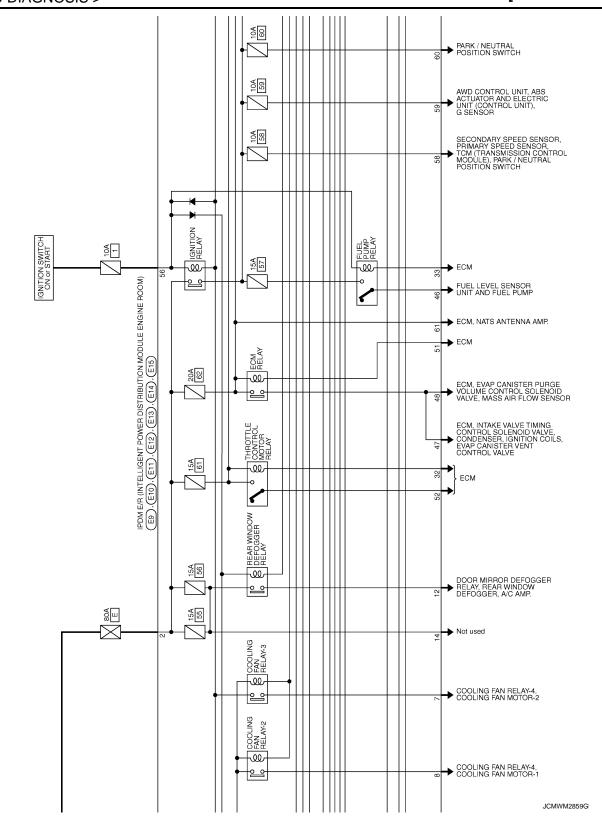
	nal No.	Description				Value	
+ (vvire	color)	Signal name	Input/ Output	(Condition		
50	Crawad	Cooling for roles E control	Outnut	Cooling fan opera-	OFF	Battery voltage	
(G)	Ground	Cooling fan relay-5 control	Output —		MID or HI	0 - 1.0 V	
51					After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		
(L)	Ground	ECM relay control	Output	Ignition switch ON For approximately tion switch from C	4 seconds after turning igni-	0 - 1.0 V	
52		Throttle control motor re-			ximately 2 seconds or more tion switch from ON to OFF	0 V	
(P)	Ground	lay power supply	Output	Ignition switch ON For approximately 2 seconds after turning ignition switch from ON to OFF		Battery voltage	
			Engine stopped			0 V	
55			upply Output Engine		A/C switch OFF	0 V	
(O)	Ground	A/C relay power supply		Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage	
56	Ground	Ignition switch ON	Input	Ignition switch OFF	or ACC	0 V	
(SB)	Giodila	Igrition switch ON	iliput	Ignition switch ON		Battery voltage	
57	Ground	Horn relay control	Output	The horn is not active	vated	Battery voltage	
(V)	Orodria	Tiom 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 roley power supply	Catpat	Ignition switch ON		Battery voltage	
59	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V	
(BR)	Ground	ignition roley power supply	Catpat	Ignition switch ON		Battery voltage	
60	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V	
(SB)	2.53.74	.g	20.500	Ignition switch ON		Battery voltage	
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage	

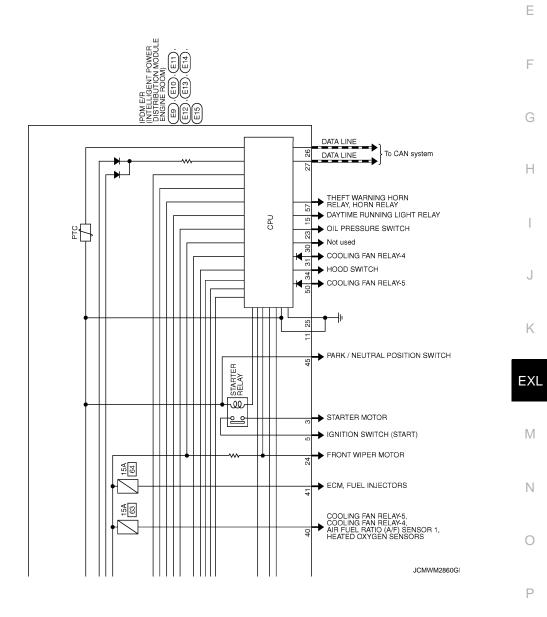
^{*1:} With daytime running light system

^{*2:} With front fog lamp system

^{*3:} For Mexico







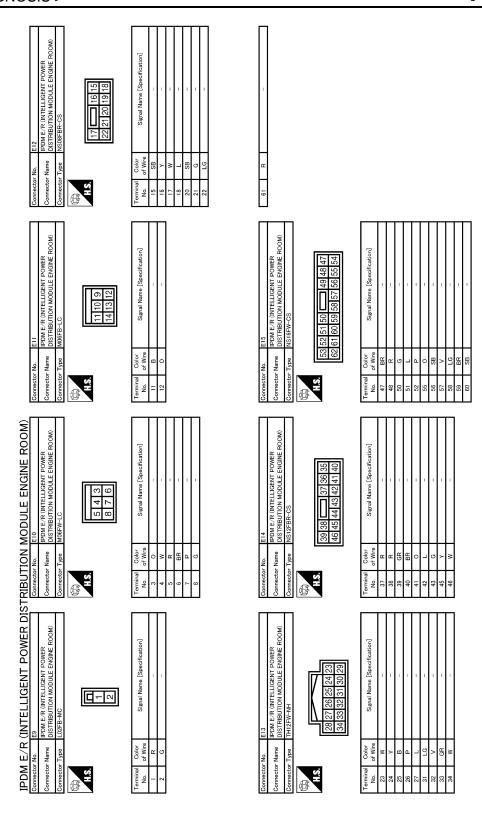
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Fail-safe

JCMWM2861G

CAN COMMUNICATION CONTROL

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

If no CAN communication is available with ECM

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [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 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/N juaginient	Ореганоп	
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 stop position signal.

When the front wiper stop position 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 stop position signal
ON	OFF	The front wiper stop position signal (stop position) cannot be input for 10 seconds.
JIV	ON	The front wiper stop position signal does not change for 10 seconds.

NOTE:

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

DTC Index INFOID:0000000004539432

CONSULT display	Fail-safe	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.

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

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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 EXL-161.		
	Both sides	Symptom diagnosis		
Headlamp (HI) is not	When ignition switch is turned ON.	"BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON" Refer to <u>EXL-245</u> .		
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		
Headlamp (LO) is not	When ignition switch is turned ON.	"BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-246.		
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 <u>EXL-173</u> .	
DIII IK.	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 switch Harness between the hazard switch and BCM BCM	Hazard switch Refer to EXL-175.	

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS > [HALOGEN TYPE]

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description INFOID:000000004230941

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

Diagnosis Procedure

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-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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Revision: 2008 August EXL-245 2009 Rogue

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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:000000004230943

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

Diagnosis Procedure

INFOID:0000000004230944

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

(P)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
TILLOTTLQ		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-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:0000000004230945

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	Lighting switch	1ST	On
REQ		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-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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BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[HALOGEN TYPE]

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:000000004230947

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

Diagnosis Procedure

INFOID:0000000004230948

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
FR FOG REQ	(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:0000000004539448

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".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000004539450

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:0000000004230951

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.

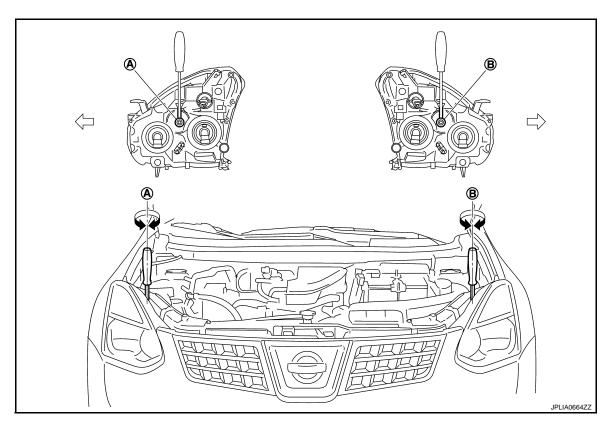
Wipe out dirt on the headlamp.

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
Α	Headlamp RH (UP/DOWN)	Clockwise	DOWN
A neadiamp kn (OP/DOWN)	Counterclockwise	UP	
В	Lie adleren III (IID/DOWN)	Clockwise	DOWN
B Headlamp LH (UP/DOWN)		Counterclockwise	UP

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INFOID:0000000004230952

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 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:**

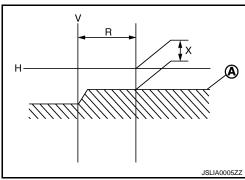
Never cover the lens surface with a tape etc. The lens is made of resin.

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

Light axis measure- : 350 ± 175 mm (13.78 ± 6.89

ment range (R) in)

Low beam distribution on the screen



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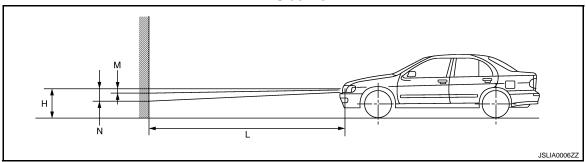
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5. Adjust the cutoff line height (X) with the aiming adjustment screw so as to enter in the adjustment range (M–N) according to the horizontal center line of headlamp (H).

unit: mm (in)	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



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

Description INFOID:000000004230953

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.

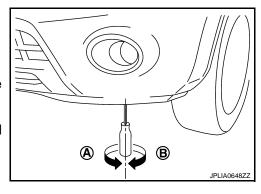
A: UP

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:0000000004230954

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:

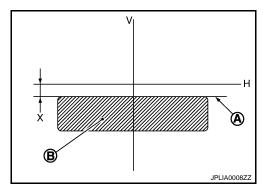
Never cover the lens surface with a tape etc. The lens is made of resin.

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 August EXL-253 2009 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

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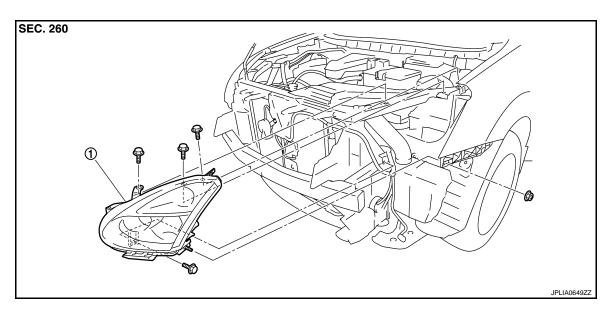
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ON-VEHICLE REPAIR

FRONT COMBINATION LAMP

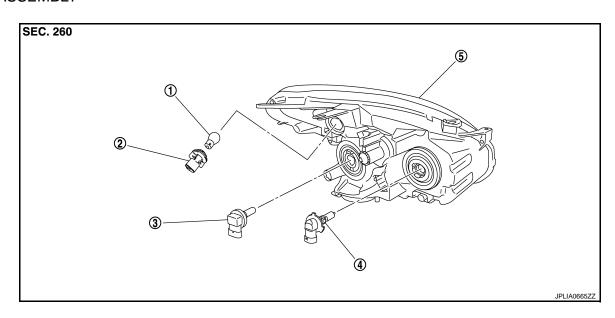
Exploded View

REMOVAL



1. Front combination lamp

DISASSEMBLY



- Front turn signal/parking (side marker) 2. 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

INFOID:0000000004230956

REMOVAL CAUTION:

Disconnect the battery negative terminal or the fuse.

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

Revision: 2008 August EXL-255 2009 Rogue

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.
- 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 <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.
- 2. Remove the bulb from the bulb socket.

Disassembly and Assembly

INFOID:0000000004230958

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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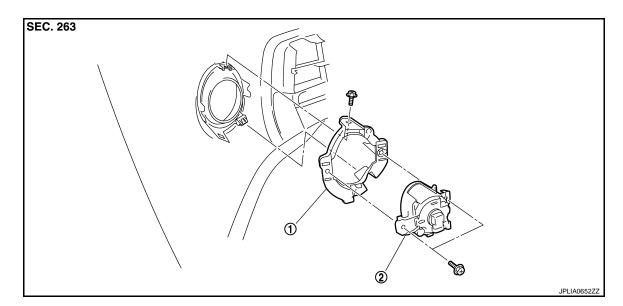
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FRONT FOG LAMP

Exploded View



1. Front fog lamp bracket

Front fog lamp

Removal and Installation

Disconnect the battery negative terminal or the fuse.

REMOVAL

CAUTION:

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

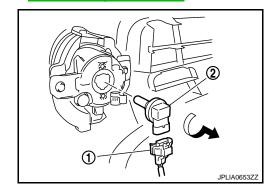
Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

FRONT FOG LAMP BULB

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



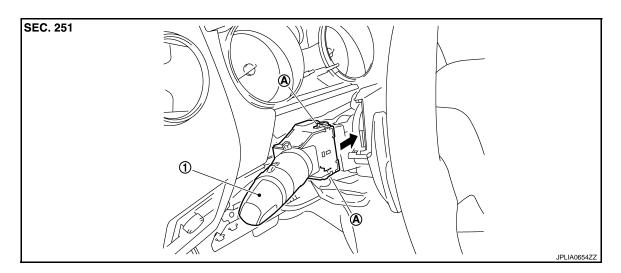
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LIGHTING & TURN SIGNAL SWITCH

Exploded View



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

Removal and Installation

INFOID:0000000004578881

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.

[HALOGEN TYPE]

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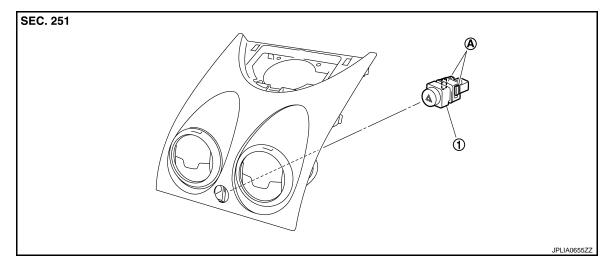
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HAZARD SWITCH

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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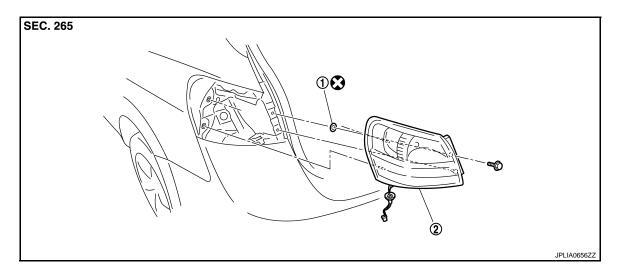
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REAR COMBINATION LAMP

Exploded View

REMOVAL

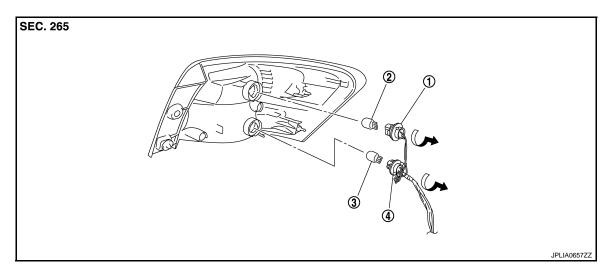


Seal packing

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

INFOID:0000000004578885

CAUTION:

Disconnect the battery negative terminal or the fuse.

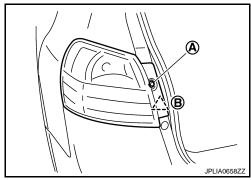
REMOVAL

- Remove the luggage side lower finisher. Refer to <u>INT-30. "Exploded View"</u>.
- 2. Disconnect rear combination lamp connector.

REAR COMBINATION LAMP

< ON-VEHICLE REPAIR > [HALOGEN 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:000000004578886

CAUTION:

Disconnect the battery negative terminal or the fuse.

STOP/TAIL (SIDE MARKER) LAMP BULB

- 1. Remove rear combination lamp. Refer to EXL-260, "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-260, "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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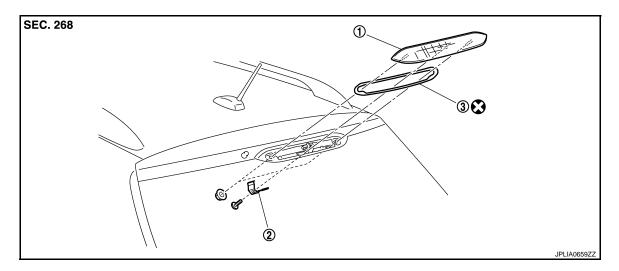
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Revision: 2008 August EXL-261 2009 Rogue

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

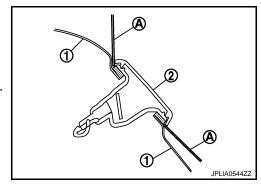
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CAUTION:

Disconnect battery negative terminal or remove the fuse.

REMOVAL

- 1. Remove the back door trim finisher upper. Refer to INT-33, "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.

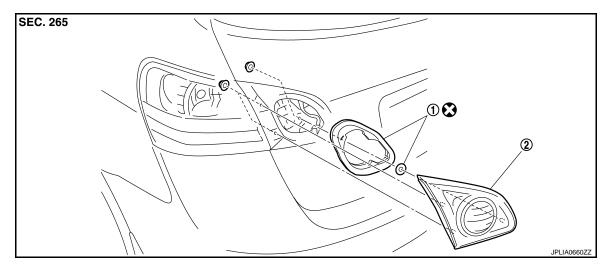
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BACK-UP LAMP

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-33, "Exploded View".
- Remove back-up lamp mounting nuts.
- 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.

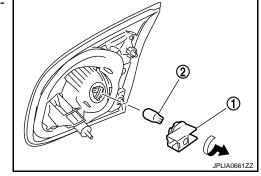
Replacement

CAUTION:

Disconnect the battery negative terminal or the fuse.

BACK-UP LAMP BULB

- 1. Remove the back-up lamp. Refer to EXL-263, "Exploded View".
- 2. Disconnect the connector, rotate the bulb socket (1) counterclockwise and unlock it.
- 3. Remove the bulb (2) from the socket.



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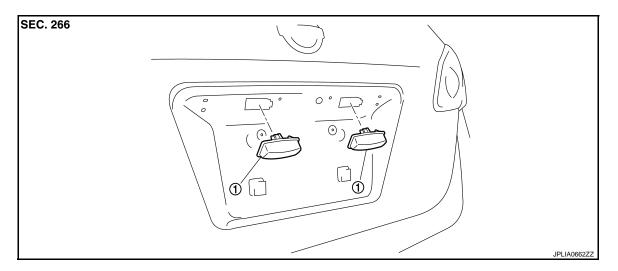
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LICENSE PLATE LAMP

Exploded View



1. License plate lamp

Removal and Installation

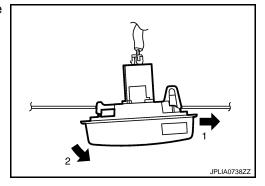
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CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

- 1. Remove back door trim finisher lower. Refer to INT-33, "Exploded View".
- 2. Remove back door finisher.Refer to INT-33, "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-33, "Exploded View".

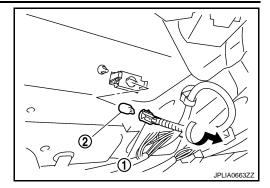
LICENSE PLATE LAMP

< 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)

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[HALOGEN TYPE]

SERVICE DATA AND SPECIFICATIONS (SDS)

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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	_	