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## **PRECAUTIONS**

< PRECAUTION > [XENON TYPE]

# **PRECAUTION**

## **PRECAUTIONS**

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. Information necessary to service the system safely is included in the SR and SB section 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 SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### WARNING

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

## **PREPARATION**

[XENON TYPE] < PREPARATION >

# PREPARATION

# **PREPARATION**

Special Service Tool

INFOID:0000000008297289 В

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description	
— (J-46534) Trim tool set	AWJIA0483ZZ	For removing trim components	

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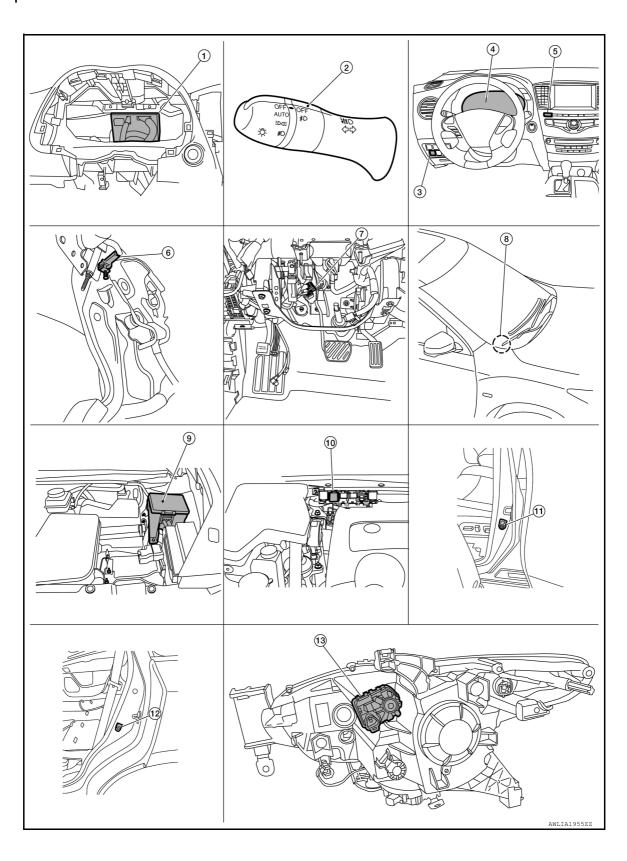
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# SYSTEM DESCRIPTION

# **COMPONENT PARTS**

**Component Parts Location** 

INFOID:0000000007914251



## **COMPONENT PARTS**

## < SYSTEM DESCRIPTION >

## [XENON TYPE]

- BCM (view with combination meter removed)
- moved)
  4. Combination meter
- 7. Stop lamp switch
- 10. Daytime light relay (if equipped)
- Front combination lamp RH (headlamp aiming motor) (LH similar)

- 2. Combination switch (lighting and turn signal switch)
- A/C and A/V switch assembly (hazard switch)
- 8. Optical sensor
- 11. Front door switch LH (RH similar)

- 3. Headlamp aiming switch
- 6. Parking brake switch
- IPDM E/R, (Front fog lamp relay, Headlamp high relay, Headlamp low relay, Taillamp relay)
- 12. Rear door switch LH (RH similar)

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### INFOID:0000000007914252

# Component Description

Part	Description		
BCM	Controls the exterior lighting system.		
Combination switch (Lighting & turn signal switch)	Refer to BCS-7, "COMBINATION SWITCH READING SYSTEM: System Description".		
IPDM E/R	Controls the integrated relays and supplies voltage to the load according to the request from the BCM via CAN communication.		
Stop lamp switch	Transmits stop lamp switch signal to BCM when the brake pedal is pressed to operate stop lamps.		
Combination meter	Refer to MWI-9, "METER SYSTEM: System Description".		
Daytime light relay (if equipped)	Sends power to the daytime lamp when operated by the IPDM E/R.		
Front combination lamp RH (headlamp aiming motor)	Moves the headlamp up/down based on input from the headlamp aiming switch.		
Front door switch LH/RH	Transmits the deer one signal to the DCM to encrete the cutalight system		
Rear door switch LH/RH	Transmits the door open signal to the BCM to operate the autolight system.		
Optical sensor	Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM to operate the autolight system.		
Parking brake switch	Transmits the parking brake switch signal to the combination meter to operate the autolight system.		
Headlamp aiming switch	Controls variable ground to the headlamp aiming motor signal to move the headlamp aiming motor up/down.		
A/C and A/V switch assembly (hazard switch)	Inputs the hazard switch signal to BCM.		

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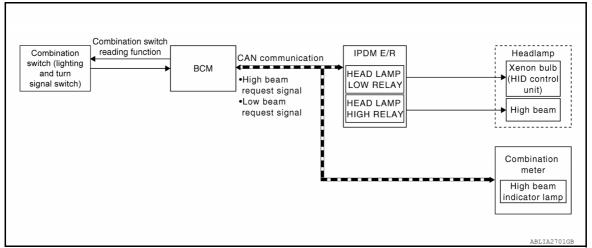
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# SYSTEM HEADLAMP SYSTEM

## **HEADLAMP SYSTEM: System Diagram**

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# **HEADLAMP SYSTEM: System Description**

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#### LOW BEAM OPERATION

When the lighting switch is in 2nd position, the BCM receives input requesting the headlamps to illuminate. This input is communicated to the IPDM E/R across the CAN communication lines. The CPU of the IPDM E/R controls the headlamp low relay coil which supplies power to the low beam headlamps.

## HIGH BEAM OPERATION/FLASH-TO-PASS OPERATION

With the lighting switch in the 2nd position and placed in HIGH position, the BCM receives input requesting the headlamp high beams to illuminate. The flash to pass feature can be used any time and also sends a signal to the BCM. This input is communicated to the IPDM E/R across the CAN communication lines. The CPU of the combination meter controls the ON/OFF status off the HIGH BEAM indicator. The CPU of the IPDM E/R controls the headlamp high relay coil which supplies power to the high beam headlamps.

The combination meter receives a high beam request signal (ON) through the CAN communication lines and turns the high beam indicator lamp ON.

## EXTERIOR LAMP BATTERY SAVER CONTROL

With the combination switch (lighting and turn signal switch) in the 2nd position and the ignition switch is turned from ON or ACC to OFF, the battery saver feature is activated.

Under this condition, the headlamps remain illuminated for a period of time, unless the lighting switch position is changed. If the lighting switch position is changed, then the headlamps are turned off.

## AUTO LIGHT SYSTEM

INFOID:0000000007914261

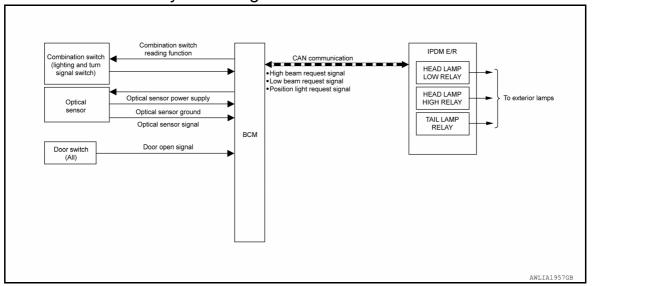
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# **AUTO LIGHT SYSTEM: System Diagram**



# AUTO LIGHT SYSTEM: System Description

INFOID:0000000008360347

- BCM (Body Control Module) controls auto light operation according to signals from optical sensor, lighting switch and ignition switch.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates parking, license plate, tail, front fog lamps and headlamps according to CAN communication signals from BCM.
- Optical sensor detects ambient brightness of 800 to 2,500 lux. And optical sensor converts light (lux) to voltage, then sends the optical sensor signal to BCM.

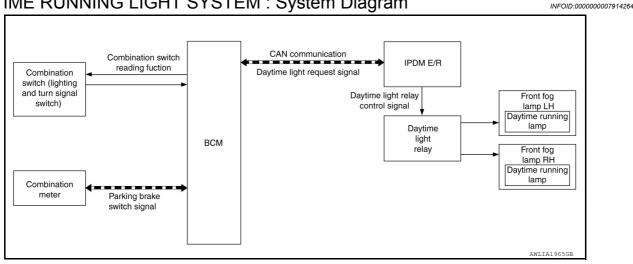
#### OUTLINE

The auto light control system has an optical sensor that detects outside brightness.

When the lighting switch is in AUTO position, it automatically turns ON/OFF the parking, license plate, tail, front fog lamps and headlamps in accordance with the ambient light. Sensitivity can be adjusted in four steps. For the details of the setting, Refer to BCS-16, "HEADLAMP: CONSULT Function (BCM - HEADLAMP)".

## DAYTIME RUNNING LIGHT SYSTEM

## DAYTIME RUNNING LIGHT SYSTEM: System Diagram



# DAYTIME RUNNING LIGHT SYSTEM: System Description

INFOID:0000000007914265

System Description

EXL-9 Revision: March 2012 2013 Infiniti JX

[XENON TYPE]

The daytime light system is equipped with a daytime light control that activates the daytime lights within the front fog lamp assembly when the engine is operating. If the parking brake is applied, the daytime lights will turn OFF. The daytime lights will turn ON when the parking brake is released.

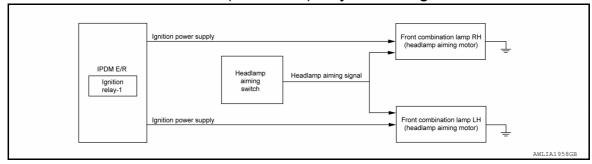
#### **OPERATION**

The BCM monitors inputs from the parking brake switch and the combination switch (lighting and turn signal switch) to determine when to operate the daytime light system. The BCM sends a daytime light request to the IPDM E/R via the CAN communication lines. The IPDM E/R grounds the daytime light relay which in turn, provides power to the daytime lights.

**HEADLAMP AIMING CONTROL (MANUAL)** 

## HEADLAMP AIMING CONTROL (MANUAL): System Diagram

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# HEADLAMP AIMING CONTROL (MANUAL): System Description

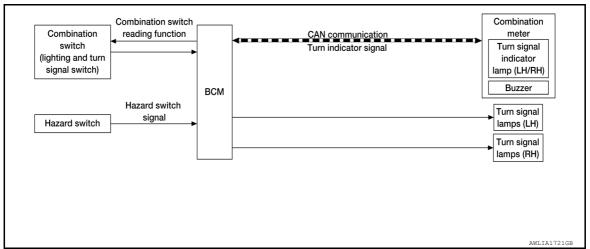
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The headlamp aiming system (manual) controls the headlamp light axis height according to input from the headlamp aiming switch. The variable internal resistance of the headlamp aiming switch controls the signal ground of the headlamp aiming motors located on the front combination lamp LH and RH. The headlamp aiming system operates when the combination switch (lighting and turn signal switch) is in the 2nd position.

## TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Diagram

INFOID:0000000007914270



# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description

INFOID:0000000007914271

## **TURN SIGNAL OPERATION**

When the combination switch (lighting and turn signal switch) is in LH or RH turn position with the ignition switch in the ON position, the BCM receives input requesting the turn RH or turn LH lamps to illuminate. The BCM controls the turn signal power to the respective turn signal lamp. The BCM also sends a turn indicator signal ON request via the CAN communication lines to the combination meter. The combination meter then activates the appropriate turn signal indicator and audible buzzer.

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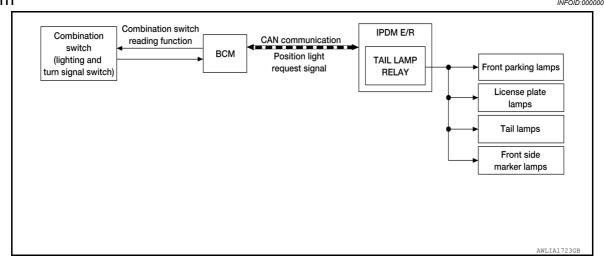
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## HAZARD LAMP OPERATION

When the hazard switch is in the ON position, the BCM receives input requesting the hazard lamps illuminate. The BCM controls the turn signal power to both the LH and RH turn signal lamps. The BCM sends a hazard indicator signal ON request via the CAN communication lines to the combination meter. The combination meter then activates both the LH and RH turn signal indicators and audible buzzer.

# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Diagram INFOID:0000000007914272



PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description INFOID:0000000007914273

## PARKING. LICENSE PLATE AND TAIL LAMPS OPERATION

When the lighting switch is in 1st position, BCM detects the LIGHTING SWITCH 1st POSITION ON. The BCM sends a parking light ON request via the CAN communication lines to the IPDM E/R. The IPDM E/R then activates the tail lamp relay which sends power to the parking and instrument illumination circuits.

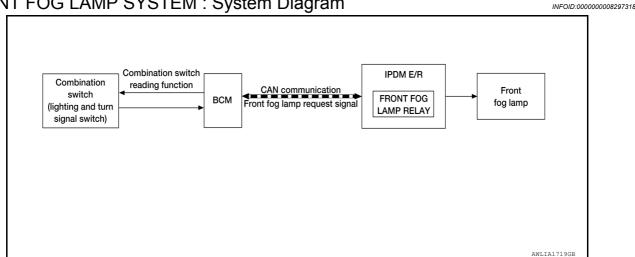
## EXTERIOR LAMP BATTERY SAVER CONTROL

With the combination switch (lighting and turn signal switch) in the 2nd position and the ignition switch is turned from ON or ACC to OFF, the battery saver feature is activated.

Under this condition, the exterior lamps remain illuminated for a period of time unless the lighting switch position is changed. If the lighting switch position is changed, then the exterior lamps are turned off.

## FRONT FOG LAMP SYSTEM

## FRONT FOG LAMP SYSTEM: System Diagram



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**EXL-11** Revision: March 2012 2013 Infiniti JX

# FRONT FOG LAMP SYSTEM: System Description

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The front fog lamps are activated with the combination switch (lighting and turn signal switch). The lighting switch signal to the BCM is monitored with the BCM combination switch reading function. When the fog lamps are turned ON with the lighting switch, the BCM sends a front fog lamp request signal via CAN communication lines to the IPDM E/R. The IPDM E/R grounds the front fog lamp relay coil to activate the front fog lamps.

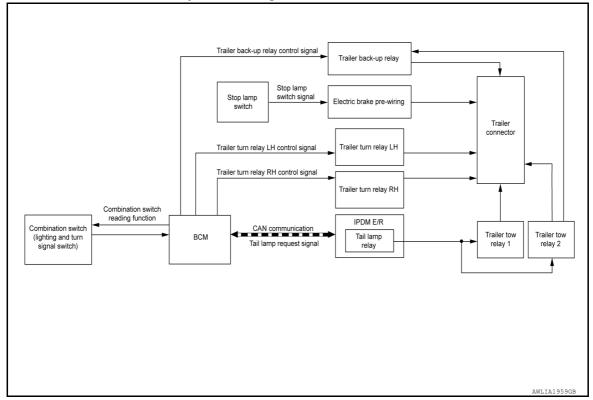
## FRONT FOG LAMP OPERATION

When the lighting switch is in front fog lamp ON position and also in 1st or 2nd position or AUTO position (headlamp is ON), the BCM detects FR FOG ON and the HEAD LAMP 1, 2 ON or the AUTO LIGHT ON. The BCM sends a front fog lamp request ON signal via the CAN communication lines to the IPDM E/R. The IPDM E/R then turns ON the front fog lamp relay sending power to the front fog lamps.

TRAILER TOW SYSTEM

# TRAILER TOW SYSTEM: System Diagram

INFOID:0000000008282701



# TRAILER TOW SYSTEM : System Description

INFOID:0000000008282702

## TRAILER TAIL LAMP OPERATION

The trailer tail lamps are controlled by the trailer tow relay 1. With the combination switch (lighting and turn signal switch) in the 1st position, the BCM detects the LIGHTING SWITCH 1st POSITION ON. The BCM sends a parking light ON request via the CAN communication lines to the IPDM E/R. The IPDM E/R then activates the tail lamp relay which activates the trailer tow relay 1 and sends power to the trailer connector.

## TRAILER TURN SIGNAL LAMP OPERATION

The trailer turn signal lamps are controlled by the BCM. When the turn signal switch is in the LH or RH position with the ignition switch ON, the combination switch (lighting and turn signal switch) sends a signal to the BCM. The BCM detects the TURN RH or TURN LH ON request. The BCM sends a control signal to the respective trailer turn relay which sends power to the trailer connector.

## TRAILER HAZARD LAMP OPERATION

The trailer hazard lamps are controlled by the BCM. When the hazard switch is pressed, the BCM detects the hazard ON request. The BCM then sends a control signal to both trailer turn relays which sends power to the trailer connector.

## **SYSTEM**

[XENON TYPE]

## TRAILER BRAKE LAMP OPERATION

The trailer brake lamps operate when the brake pedal is pressed sending the stop lamp switch signal to the trailer connector.

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# **DIAGNOSIS SYSTEM (BCM)**

< SYSTEM DESCRIPTION >

[XENON TYPE]

# DIAGNOSIS SYSTEM (BCM)

**COMMON ITEM** 

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000008282676

## APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul>
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

## SYSTEM APPLICATION

BCM can perform the following functions.

		Direct Diagnostic Mode				·		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	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			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

# **HEADLAMP**

# **DIAGNOSIS SYSTEM (BCM)**

< SYSTEM DESCRIPTION >

[XENON TYPE]

# HEADLAMP : CONSULT Function (BCM - HEADLAMP)

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## **DATA MONITOR**

Monitor Item [Unit]	Description	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.	
ENGINE STATE [Stop/Stall/Crank/Run]	Indicates engine status received from ECM on CAN communication line.	
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.	
TURN SIGNAL R [On/Off]		
TURN SIGNAL L [On/Off]		
TAIL LAMP SW [On/Off]		
HI BEAM SW [On/Off]		
HEAD LAMP SW 1 [On/Off]	Indicates condition of combination switch.	
HEAD LAMP SW 2 [On/Off]		
PASSING SW [On/Off]		
AUTO LIGHT SW [On/Off]		
FR FOG SW [On/Off]		
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of back door switch.	
OPTI SEN (DTCT) [V]	Indicates outside brightness voltage signal from optical sensor.	
OPTI SEN (FILT) [V]	Indicates outside brightness voltage signal from optical sensor filtered by BCM.	
OPTI SEN (FILT) [V]	Indicates outside brightness voltage signal from optical sensor filtered by BCM.	

## **ACTIVE TEST**

Test Item	Description	
FR FOG LAMP	This test is able to check front fog lamp operation [On/Off].	
DAYTIME RUNNING LIGHT	This test is able to check daytime running lamp operation [On/Off].	
ILL DIM SIGNAL	This test is able to check head lamp illumination dimming operation [On/Off].	

## **WORK SUPPORT**

Support Item	Setting	Description
TWILIGHT ON CUST	MODE2*	Autolamp function ON.
TWILIGHT ON COST	MODE1	Autolamp function OFF.
	MODE4	This mode is not used.
WIPER LINK CUST	MODE3*	Wiper link function operates in INT, LOW and HI.
WIPER LINK COST	MODE2	Wiper link function operates in LOW and HI.
	MODE1	Wiper link function OFF.
	MODE4	Less sensitive than normal setting (turns ON later).
CUSTOM A/LIGHT SETTING	MODE3	More sensitive than MODE2.
	MODE2	More sensitive than normal setting (turns ON earlier).
	MODE1*	Normal setting.

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# **DIAGNOSIS SYSTEM (BCM)**

## < SYSTEM DESCRIPTION >

[XENON TYPE]

Support Item	Setting	Description
	MODE 8	
	MODE 7	
	MODE 6	
III DELAV SET	MODE 4	Autoloma dolov timor
ILL DELAY SET	MODE 5	Autolamp delay timer.
	MODE 3	
	MODE 2	
	MODE 1*	

<sup>\* :</sup> Initial setting

# **FLASHER**

# FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000008282678

## **DATA MONITOR**

Monitor Item [Unit]	Description	
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.	
TURN SIGNAL R [On/Off]	Indicates condition of turn signal function of combination switch.	
TURN SIGNAL L [On/Off]		
HAZARD SW [On/Off]	Indicates condition of hazard switch.	
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.	
RKE-UNLOCK [On/Off]	Indicates condition of unock signal from Intelligent Key.	
RKE-PANIC [On/Off]	Indicates condition of panic alarm signal from Intelligent Key.	

## **ACTIVE TEST**

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [Off/LH/RH].

## **DIAGNOSIS SYSTEM (IPDM E/R)**

< SYSTEM DESCRIPTION >

[XENON TYPE]

# DIAGNOSIS SYSTEM (IPDM E/R)

# **Diagnosis Description**

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## **AUTO ACTIVE TEST**

## Description

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

- Front wiper (LO, HI)
- Front fog lamps
- Parking lamps
- Side marker lamps
- Tail lamps
- · License plate lamps
- Daytime running lamps
- · Headlamps (LO, HI)
- A/C compressor
- Cooling fans (LO, HI)

## Operation Procedure

#### **CAUTION:**

## Do not start the engine.

#### NOTE:

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

#### NOTE:

- If auto active test mode cannot be actuated, check door switch system. Refer to <u>DLK-166</u>, <u>"Component Function Check"</u>.
- When auto active test mode has to be cancelled halfway through test, turn ignition switch OFF.
- 1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)
- 2. Turn ignition switch OFF.
- 3. Turn the ignition switch ON, and within 20 seconds, press the front door switch LH 10 times. Then turn the ignition switch OFF.
- Turn the ignition switch ON within 10 seconds. After that the horn sounds once, and the auto active test starts.
- After a series of the following operations is repeated 3 times, auto active test is completed.

## Inspection in Auto Active Test Mode

When auto active test mode is actuated, the following operation sequence is repeated 3 times.

Operation sequence	Inspection Location	Operation	
1	Front wiper	LO for 3 seconds → HI for 3 seconds	
2	<ul><li>Front fog lamps</li><li>Parking lamps</li><li>Side marker lamps</li><li>Tail lamps</li><li>License plate lamps</li></ul>	10 seconds	N
3	Daytime running lamps	10 seconds	0
4	Headlamps	LO ⇔ HI 5 times	<del></del>
5	A/C compressor	ON ⇔ OFF 5 times	
6*	Cooling fans	LO for 5 seconds → HI for 5 seconds	—— Р

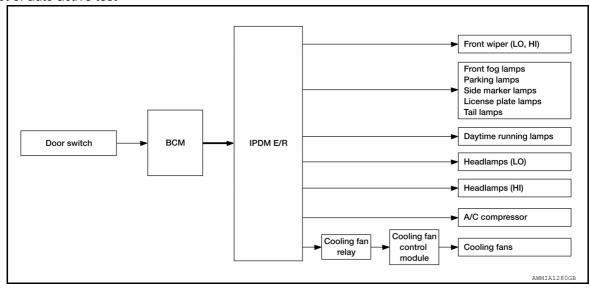
<sup>\*:</sup> Outputs duty ratio of 50% for 5 seconds → duty ratio of 100% for 5 seconds on the cooling fan control module.

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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
Any of the following components do not operate		YES	BCM signal input circuit
<ul> <li>Front fog lamps</li> <li>Parking lamps</li> <li>Side marker lamps</li> <li>License plate lamps</li> <li>Tail lamps</li> <li>Daytime running lamps</li> <li>Headlamp (HI, LO)</li> <li>Front wiper</li> </ul>	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
		YES	ECM signal input circuit     CAN communication signal between ECM and IPDM E/ R
Cooling fans do not operate	Perform auto active test. Do the cooling fans operate?	NO	Cooling fans Harness or connectors between cooling fans and cooling fan control module Cooling fan control module Harness or connectors between cooling fan relay and cooling fan relay Cooling fan relay Harness or connectors between IPDM E/R and cooling fan relay IPDM E/R

# CONSULT Function (IPDM E/R)

INFOID:0000000008282681

## APPLICATION ITEM

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

# **DIAGNOSIS SYSTEM (IPDM E/R)**

## < SYSTEM DESCRIPTION >

[XENON TYPE]

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Direct Diagnostic Mode	Description
Ecu Identification	The IPDM E/R part number is displayed.
Self Diagnostic Result	The IPDM E/R self diagnostic results are displayed.
Data Monitor	The IPDM E/R input/output data is displayed in real time.
Active Test	The IPDM E/R activates outputs to test components.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

## **ECU IDENTIFICATION**

The IPDM E/R part number is displayed.

# SELF DIAGNOSTIC RESULT

Refer to PCS-19, "DTC Index".

## **DATA MONITOR**

Monitor Item [Unit]	Main Signals	Description
RAD FAN REQ [%]	×	Indicates cooling fan speed signal received from ECM on CAN communication line
AC COMP REQ [On/Off]	×	Indicates A/C compressor request signal received from ECM on CAN communication line
TAIL&CLR REQ [On/Off]	×	Indicates position light request signal received from BCM on CAN communication line
HL LO REQ [On/Off]	×	Indicates low beam request signal received from BCM on CAN communication line
HL HI REQ [On/Off]	×	Indicates high beam request signal received from BCM on CAN communication line
FR FOG REQ [On/Off]	×	Indicates front fog light request signal received from BCM on CAN communication line
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Indicates front wiper request signal received from BCM on CAN communication line
WIP AUTO STOP [STOP P/ACT P]	×	Indicates condition of front wiper auto stop signal
WIP PROT [Off/BLOCK]	×	Indicates condition of front wiper fail-safe operation
IGN RLY1 -REQ [On/Off]		Indicates ignition switch ON signal received from BCM on CAN communication line
IGN RLY [On/Off]	×	Indicates condition of ignition relay
PUSH SW [On/Off]		Indicates condition of push-button ignition switch
INTER/NP SW [On/Off]		Indicates condition of CVT shift position
ST RLY CONT [On/Off]		Indicates starter relay status signal received from BCM on CAN communication line
IHBT RLY -REQ [On/Off]		Indicates starter control relay signal received from BCM on CAN communication line
ST/INHI RLY [Off/ ST /INHI]		Indicates condition of starter relay and starter control relay
DETENT SW [On/Off]		Indicates condition of CVT shift selector (park position switch)
DTRL REQ [Off]		Indicates daytime light request signal received from BCM on CAN communication line
HOOD SW [On/Off]		Indicates condition of hood switch
THFT HRN REQ [On/Off]		Indicates theft warning horn request signal received from BCM on CAN communication line
HORN CHIRP [On/Off]		Indicates horn reminder signal received from BCM on CAN communication lin

**ACTIVE TEST** 

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# DIAGNOSIS SYSTEM (IPDM E/R)

## < SYSTEM DESCRIPTION >

[XENON TYPE]

Test item	Description
HORN	This test is able to check horn operation [On].
FRONT WIPER	This test is able to check wiper motor operation [Hi/Lo/Off].
MOTOR FAN	This test is able to check cooling fan operation [4/3/2/1].
EXTERNAL LAMPS	This test is able to check external lamp operation [Fog/Hi/Lo/Tail/Off].

## **CAN DIAG SUPPORT MNTR**

Refer to LAN-19, "CAN Diagnostic Support Monitor".

# BCM, IPDM E/R

## < ECU DIAGNOSIS INFORMATION >

## [XENON TYPE]

INFOID:0000000007914286

# **ECU DIAGNOSIS INFORMATION**

BCM, IPDM E/R

List of ECU Reference

ECU	Reference	
	BCS-27, "Reference Value"	
ВСМ	BCS-47, "Fail Safe"	
DCIVI	BCS-47, "DTC Inspection Priority Chart"	D
	BCS-49, "DTC Index"	
	PCS-12, "Reference Value"	
IPDM E/R	PCS-18, "Fail Safe"	E
	PCS-19, "DTC Index"	

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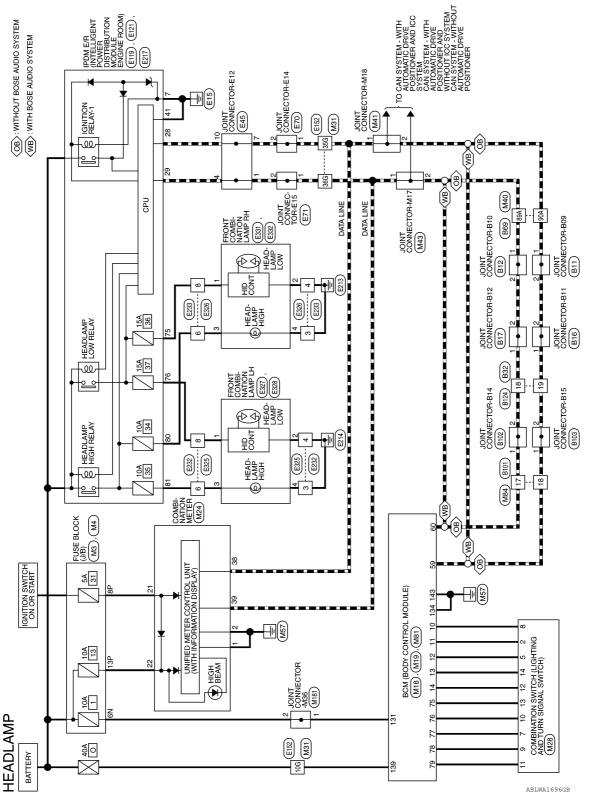
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< WIRING DIAGRAM > [XENON TYPE]

# **WIRING DIAGRAM**

# **HEADLAMP**

Wiring Diagram



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Connector No.	M4	Connector No.	M18
Connector Name	onnector Name FUSE BLOCK (J/B)	Connector Name	BCM (BODY CONTROL
Connector Color	WHITE		MODULE)
		Connector Color   GRFFN	GBFFN

	2 1 22 21						
	9 8 7 6 5 4 3 29 28 27 26 25 24 23	Signal Name	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1
	34 44	Color of Wire	۵	۵	>	>	Д
H.S.	20 19 18 17 16 15 14 13 12 11 10 40 40 39 38 32 31 30	Terminal No.	10	11	12	13	14

Signal Name	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1	
Color of Wire	۵	Ф	^	8	Ь	
Terminal No.	10	11	12	13	14	

M24	COMBINATION METER	WHITE		33 32 31 30 29 28 27 26 25 24 23 22 21	r of Bignal Name	GND1	GND2	IGN	BAT	CAN-L	CAN-H
M24	_			32	Color of Wire	В	В	BG	8	۵	_
Connector No.	Connector Name	Connector Color	H.S.	20 19 18 17 16 40 39 38 37 36 3	Terminal No.	-	2	21	22	38	39

r No.	M4
r Name	
r Color	WHITE
7	7P 6P 5P 4P 3P 2P 1P
16P	6P 15P 14P 13P 12P 11P 10P 9P 8P

Signal Name	ı	1
Color of Wire	BG	M
Terminal No.	8P	13P

Signal Name	CAN-L	CAN-H	COMBI SW OUT					
Color of Wire	Ь	٦	BG	۵	۵	Μ	Μ	
Terminal No.	69	09	75	9/	2.2	8/	79	
						F	-1=	1



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Connector No	M3
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	WHITE
H.S.	3N

HEADLAMP CONNECTORS

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Wire	Μ	
i erriiriai No.	N9	
	Terminal No.   Wire   Signal Name	Wire

U	Ö	Ĕ	Connector No.	ō	ž		_	M19	6										
$\cup$	Ö	≝	ect	ō	Za	Ĕ	m	l88 M	ΣŌ	е́З	Connector Name   BCM (BODY CONTROL   MODULE)	ž	18	Į	Ě	占			
$_{\Box}$	Ö	Ĕ	Connector Color BLACK	o	ပြ	ō	Ī.	В	AC	X									
																			i .
1	F																		
	7	SH	-																
7	1	4	9						Ш	IN.	IV.	117							
	99	29	28	57	56	55	54	53	52	51	57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 4	49	48	47	46	45	4	43	4
_	æ	5	78	7	76	75	74	73	7	7	80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 6	6	89	67	99	65	3	8	G.

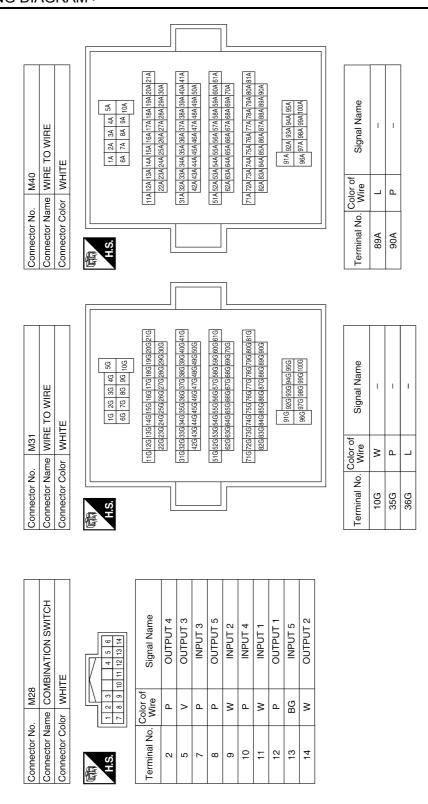
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	Connector Name BCM (BODY CONTROL MODULE)	ITE		137   136   135   134   133   132   131   130   129   138   142   141   140   139   138		Signal Name	BAT BCM FUSE	GND2	BAT POWER F/L	GND1
M81	ne BCI MO	r WH		137 136 135 134 1 143 142 141		color of Wire	>	В	8	В
Connector No.	Connector Narr	Connector Color WHITE			11.5	Terminal No. Wire	131	134	139	143
									1	
	-M17									

M81	Connector Name BCM (BODY CONTROL MODULE)	WHITE	1/3   1/42   1/41   1/40   1/38   1/3	r of Signal Name	/ BAT BCM FUSE	GND2	/ BAT POWER F/L	GND1		
Connector No.	Connector Name	Connector Color WHITE	(13713) H.S.	Terminal No. Wire	131 W	134 B	139 W	143 B		
	Connector Name JOINT CONNECTOR-M17	<u> </u>	3 2 1	Signal Name	1	ı				
M43	NIOC 3	MHI	4	Solor of Wire	_	_				
Connector No.	Connector Nan	Connector Color WHITE	是 H.S.	Terminal No. Wire	-	2				
	Connector Name JOINT CONNECTOR-M18		3 2 1	Signal Name	1	1				
M41	me JOIN	or WHI	4	Color of Wire	۵	۵				
Connector No.	Connector Nar	Connector Color   WHITE	是 H.S.	Terminal No. Wire	-	2				

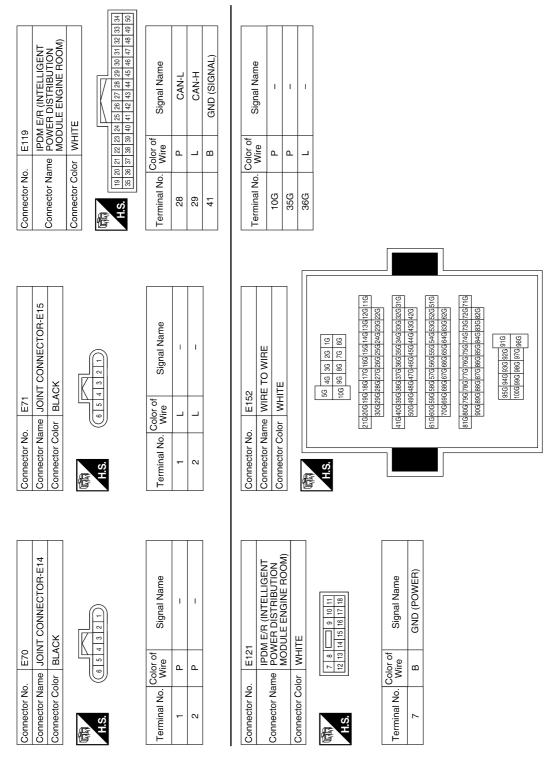
00E	Signal Name	ı	ı
H.S. (12 11 10 9	Terminal No. Wire	- -	4 L
4 3 2 1 1 D	of Signal Name	1	ı
A.S.	rminal No. Wire	1 W	2 W
	ĒД		
	Signal Name	I	1
Of WHI 5 14 13 12 1 30 29 28	Color of Wire	_	Ф
H.S. 16 15	erminal No.	17	18
	Connector Color   WHITE   Connector Color   WHITE   Connector Color   BLUE	Connector Color   WHITE   Connector Color   WHITE   Connector Color   BLUE	Terminal No.   White   Connector Color of   WHITE   Connector Color   BLUE   Connector Color   BLUE   Connector Color   BLUE   Connector Color   BLUE   Color of   Color of

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							Vame				
E233	Connector Name WIRE TO WIRE	BRAY	[	4 3 2 1	8 7 6 5	-	of Signal Name	1	_	1	
	Vame V	Solor					Color Wire	В	В	9	_
Connector No.	Connector I	Connector Color   GRAY	é	E	H.S.		Terminal No. Wire	3	4	9	80
2	RE TO WIRE	JOK	Γ	3 2 1	0 0		Signal Name	ı	-	-	ı
. E232	me WIF	lor BLA		4	8		Color of Wire	В	В	W	Œ
Connector No.	Connector Name WIRE TO WIRE	Connector Color BLACK	Ą		H.S.	-	Terminal No. Wire	3	4	9	80
						Γ					
7	IPDM E/R (INTELLIGENT Name POWER DISTRIBITION	DULE ENGINE ROOM)	ITE		77 78 79 80 81		Signal Name	HEADLAMP LO RH	HEADLAMP LO LH	HEADLAMP HI RH	HEADLAMP HI LH
). E217	me PO	MO	lor WH		77 77		Color of Wire	В	٦	Μ	9
nector No.	nector Na		nector Color WHITE	[	S.		rminal No. Wire	75	92	80	81

Connector No.	E327	7
Connector Name		FRONT COMBINATION LAMP LH
Connector Color	lor BLACK	CK
朝 H.S.		
Terminal No.	Color of Wire	Signal Name
3	σ	ı
4	В	ı

**HEADLAMP** 

- 1			_	1	_	_			
	9;	WIRE TO WIRE	AY	8 7 8 8 4 4 8 4 4 8 8 8 8 8 8 8 8 8 8 8	Signal Name	ı	1	ı	ı
	E326		lor GRAY	1 5	Color of Wire	В	ω	>	Œ
	Connector No.	Connector Name	Connector Color	原 H.S.	Terminal No.	က	4	9	8

	Connector Name		WIRE TO WIF
	Connector Color		GRAY
- <u> </u>	所 H.S.	[- [0]	2 2 9 4 8 7 7 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9
	Terminal No.	Color of Wire	of Signs
	က	Ф	
	4	В	
	9	×	
	8	Œ	

2	WIRE TO WIRE	CK		Signal Name	I	I	-	1
. E325		lor BLACK	1 2 9	Color of Wire	В	В	٨	GR
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	င	4	9	8

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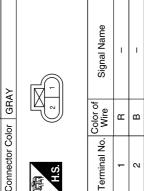
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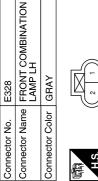
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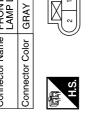
Connector No.	E332
Connector Name	Connector Name FRONT COMBINATION LAMP RH
Connector Color GRAY	GRAY

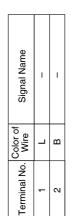






Connector No.





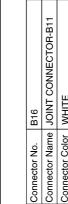
Signal Name

Color of Wire

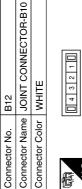
Terminal No. က

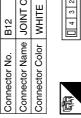
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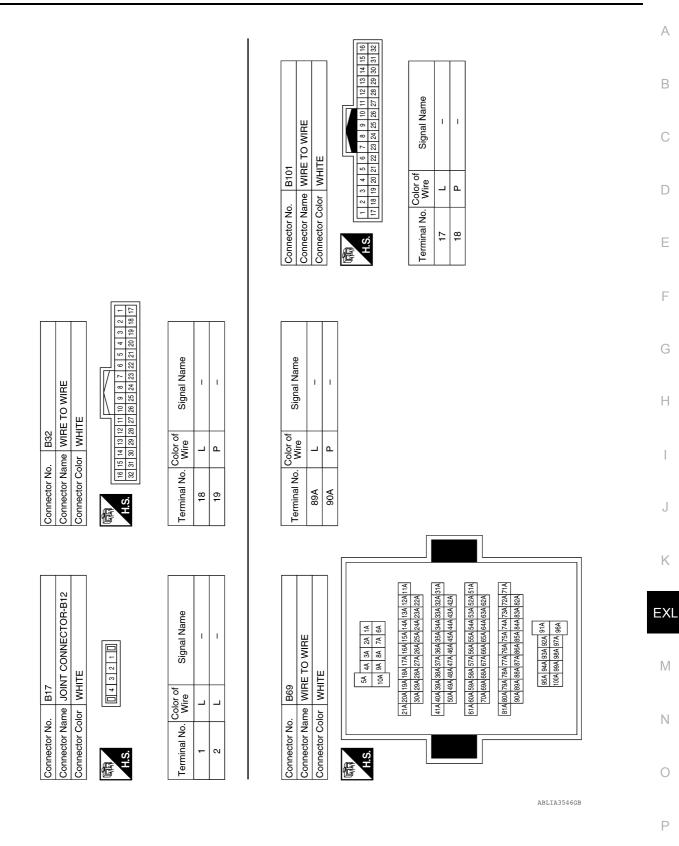


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Signal Name	_	ı	
Color of Wire	Ь	Ь	
Terminal No.	-	2	

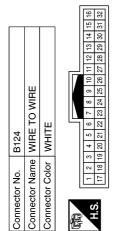
Signal Name	ı	ı	
Color of Wire	Γ	7	
Terminal No.	1	2	

Signal Name	ı	ı	
Color of Wire	Ь	Ь	
Terminal No.	1	2	

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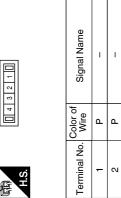


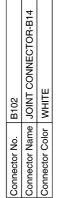
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Signal Name	1	1
Color of Wire	٦	Р
Terminal No.	18	19







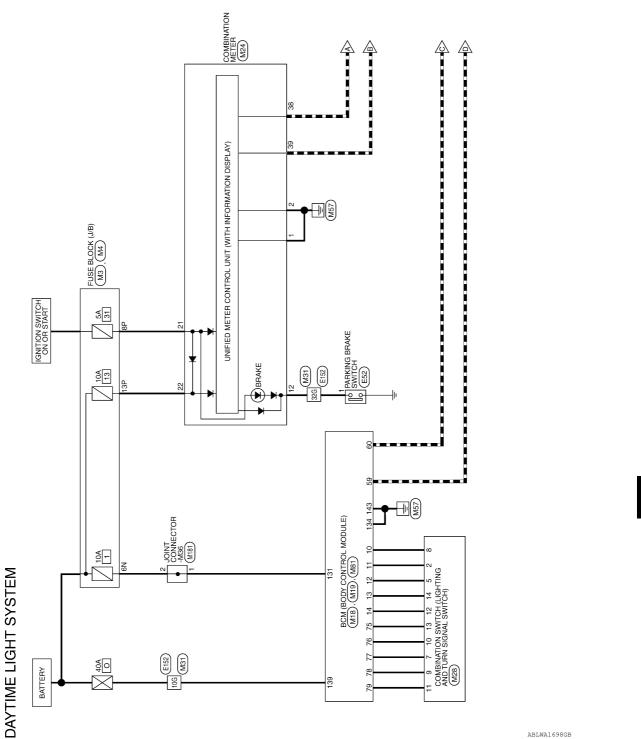


Signal Name	1	1
Color of Wire	L	Г
Terminal No.	-	2

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# DAYTIME LIGHT SYSTEM

Wiring Diagram



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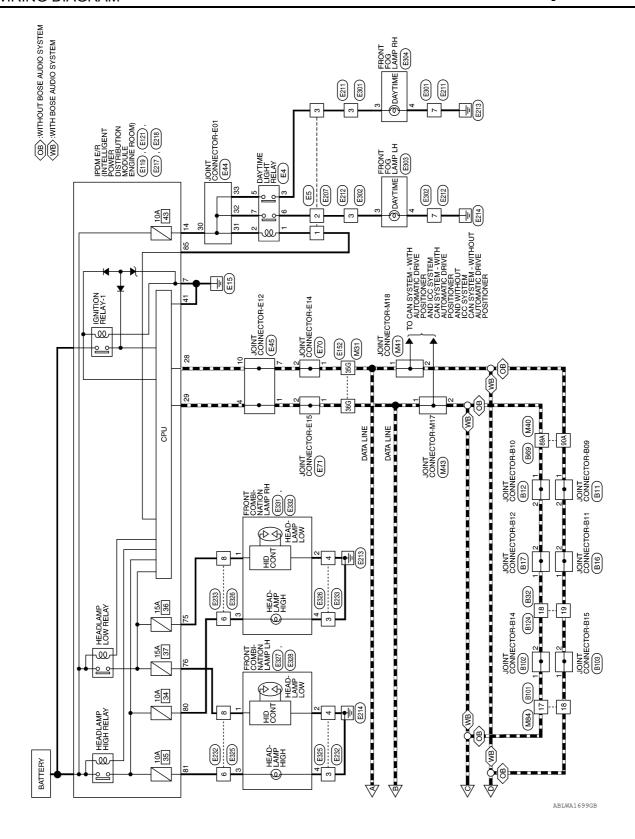
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# DAYTIME LIGHT SYSTEM CONNECTORS

			:
Connector No.   M3	M3	Connector No.   M4	M4
Connector Name	Connector Name FUSE BLOCK (J/B)	Connector Name FUSE BL	FUSE BL
Connector Color WHITE	WHITE	Connector Color WHITE	WHITE

LOCK (J/B)

M18   School Connector Name   BCM (BODY CONTROL   MODULE)   Connector Color   GREEN   Connector Color   GREEN   Connector Color   GREEN   Connector Color of   Color Signal Name   12				1	22 21		_				
		M (BODY CONTROL DULE)	EEN		10 9 8 7 6 5 4 3 30 29 28 27 26 25 24 23	Signal Name	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1
Connector Na. Connector Na.  Connector Col.  10 19 18 17 16 1  10 10 11 11  11 11  12 12  13 13					15 14 13 35 34 33	Solor of Wire	۵	۵	>	≥	Д
	Connector No.	Connector Nar	Connector Col	H.S.	9 98	Terminal No.	10		12	13	14

Signal Name	ı	ı
Color of Wire	BG	8
Terminal No. Wire	8P	13P

Signal Name	ı	
Color of Wire	>	
Terminal No.	N9	

M24	Connector Name COMBINATION METER	WHITE	
Connector No.	Connector Name	Connector Color	

Connector No. M19
Connector Name BCM (BODY CONTROL MODULE)

BLACK

Connector Color

	COMBINATION METER	WHITE			12 11 10 9 8 7 6 5 4 32 31 30 29 28 27 26 25 24	Signal Name	GND1	GND2	PKB	IGN	BAT	CAN-L	CAN-H
-					15 14 13 35 34 33	Color of Wire	В	В	ŋ	BG	M	Ь	L
Collinger 140.	Connector Name	Connector Color	S I		20 19 18 17 16 40 39 38 37 36	Terminal No.	1	2	12	21	22	88	39
				_	6 41								

	8 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 41 41 45 41 41 41 42 41 41 41 41 41 41 41 41 41 41 41 41 41	al No. Wire Signal Name	P CAN-L	) L CAN-H	BG COMBI SW OUT 5	P COMBI SW OUT 4	P COMBI SW OUT 3	W COMBI SW OUT 2	W COMBISW OUT 1
H.S.	60 59 58 57 56 55 80 79 78 77 76 75	Terminal No.	29	09	75	92	77	78	62

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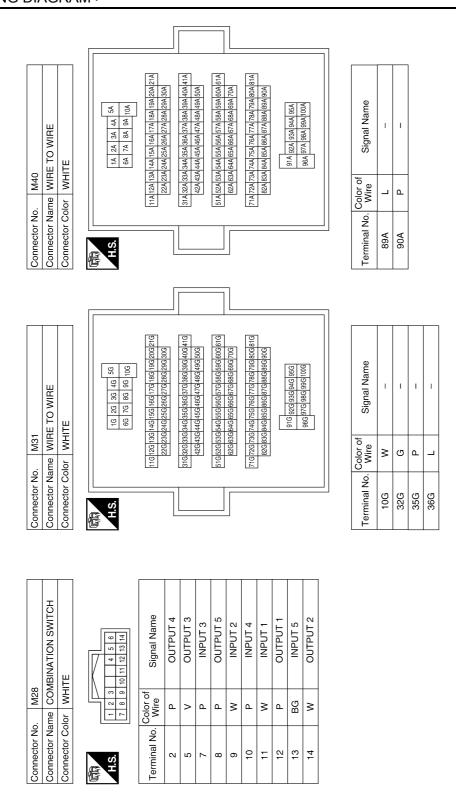
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Connector No.	. M81	
Connector Na	me BCN MOI	Connector Name BCM (BODY CONTROL MODULE)
Connector Color	lor WHITE	TE
南 H.S.	143 142	137  (38  138  138  138    142    141    140    138    138
Terminal No.	Color of Wire	Signal Name
131	>	BAT BCM FUSE
134	В	GND2
139	>	BAT POWER F/L
143	В	GND1

	JOINT CONNECTOR-M17	11	043210	Signal Name	1	ı
. M43		lor WHITE	4	Color of Wire	٦	٦
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	-	2

	Connector Name   JOINT CONNECTOR-M18	ITE		Signal Name	I	-
. M41	me JOI	lor WH	4	Color of Wire	۵	۵
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.	-	2

Connector No.	). E4	
Connector Name		DAYTIME LIGHT RELAY
Connector Color		BROWN
S H		-
		6 3
Terminal No.	Color of Wire	Signal Name
-	>	ı
2	>	I
က	BR	I
5	>	I
9	>	ı
7	>	ı

31	JOINT CONNECTOR-M36	ITE	4 3 2 1	Signal Name	I	1
. M181		lor WH	4	Color of Wire	8	×
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No.	1	2

			181			
-	RE TO WIRE	IITE	16 15 14 13 12 11 10 9 8 7 6 5 4 3 3 2 2 1 20 19 1 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Signal Name	I	1
. M84	me WIF	lor WH	15 14 13 1 31 30 29 2	Color of Wire	_	۵
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No.	17	18

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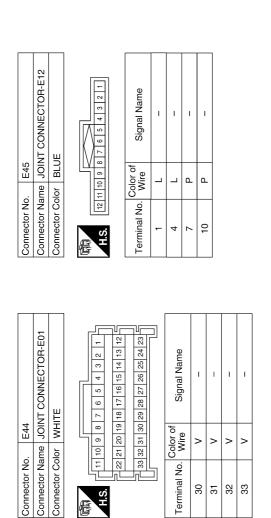
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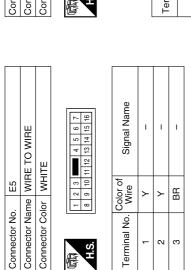
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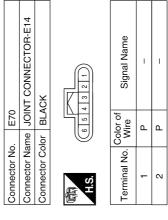
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Connector No.		E71	
Connector Na	ıme	g	Connector Name   JOINT CONNECTOR-E15
Connector Color		BLACK	CK
 H.S.		4	3 2 1
Terminal No. Wire	Color of Wire	or of re	Signal Name
-			1
2	1		I



	Connector Name PARKING BRAKE SWITC	CK		Signal Name	ı
E52	ne PAR	or BLACK		Color of Wire	LG
Connector No.	Connector Nar	Connector Color	原 H.S.	Terminal No.	F

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POWE FISHED TOWN   POWE FISHED			Connector No.   E207
POWER DISTRIBUTION   WHITE   CAN-H   B   GND (SIGNAL)   CAN-H   CA	o g	Color of Wire B B	Color of Wire P P P P P P P P P P P P P P P P P P P
Connector No.  Connector Nam  Connector No.  Connector No.  Connector No.  Connector Nam  Connec	VTELLIGENT STRIBUTION VGINE ROOM)  OF THE PROOF THE PROO	as 44 45 45 45 45 50 and nail Name CAN-L CAN-H CAN-H (SIGNAL)	E152   WHITE TO WIRE   16   16   16   16   16   16   16   1

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Connector No. E211 Connector Name WIRE TO WIRE Connector Color GRAY	Connector No. Connector Name Connector Color	E212 WIRE TO WIRE GRAY	Connector No. Connector Name	e	E217 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
(1) 2 3 4 (1) 5. (2) 8 (1) 8 (1) 8 (1) 1	所 H.S.	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Connector Color	WHITE	TE □ 75 76 79 80 81
Terminal No. Wire Signal Name	Terminal No.	Color of Signal Name Wire P	Terminal No.	Color of Wire	Signal Name
- B -	7	В	75	ш П	HEADLAMP LO RH HEADLAMP LO LH
			80	> თ	HEADLAMP HI RH HEADLAMP HI LH
Connector No. E218	Connector No.	E232	Connector No.	. E233	
IPDM E/R (INTELLIGENT Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Name	WIRE TO WIRE BLACK	Connector Name WIRE TO WIRE Connector Color GRAY	me WIRE	E TO WIRE
Connector Color WHITE				()	
H.S. (82 83 84 85 66 87 88 89) (90 91 92 93 94 95 96 97)	H.S.	4 8 8 C C C C C C C C C C C C C C C C C	S. H		8 4 8 3 2 7 4 8 9 4 9 9 7 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Terminal No. Vire Signal Name	Terminal No.	Color of Signal Name	Terminal No.	Color of Wire	Signal Name
85 P DTRL RLY	3	В	3	В	ı
	4	В	4	В	I
	9		9	ŋ	I
	8		8	7	I

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	NO							
03	Connector Name FRONT COMBINATION	CAMP LH	<u>.</u> [[	[1] [1]	f Signal Name	ı	-	
). E303	ame FF	<u>ا</u> ک	וסור פרוי		Color o Wire	ഉ	В	
Connector No.	Connector Na			H.S.	Terminal No. Wire	11	12	
5	E TO WIRE	٨٨		2 - 2	Signal Name	1	-	
E305	ne WIR	or GR/		7 6	Solor of Wire	2	В	
Connector No.	Connector Name WIRE TO WIRE	Connector Color GRAY	E	H.S.	Terminal No. Wire	က	7	
	E TO WIRE	٨١		6 5	Signal Name	ı	-	
E301	ne WIR	or GRA	4	t 80	Color of Wire	re	В	
Connector No.	Connector Name WIRE TO WIRE	Connector Color GRAY	管	H.S.	Terminal No. Wire	ဇ	7	

					r	
	E325		<u> </u>	Connector No.	E326	9
an a	Connector Name   WIRE TO WIRE	ij.		Connector Name		WIRE TO WIRE
	Connector Color BLACK			Connector Color GRAY	or GR/	1,Y
	1 5 1 8 4 8 L 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			明.S.	5 - 2	
	Terminal No. Wire Signa	Signal Name		Terminal No. Wire	Color of Wire	Signal Name
	В	1		3	В	1
	В	ı	ı	4	В	ı
	M	_		9	W	_
	GB	ı		8	<u>a</u>	1

E304  REPONT COMBINATION LAMP RH		Color of Signal Name	- PT	- В
		Color o Wire	ГG	В
Connector No.	H.S.	Terminal No.	11	12

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**EXL-39** 2013 Infiniti JX Revision: March 2012

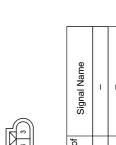
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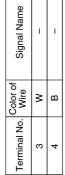
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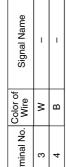
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Connector Name FRONT COMBINATION LAMP RH Connector Color BLACK	Connector No.	E331
Connector Color BLACK	Connector Name	FRONT COMBINATION LAMP RH
	Connector Color	BLACK











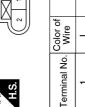
Connector Name FRONT COMBINATION LAMP LH

Connector Color

E328

Connector No.





Signal Name

В

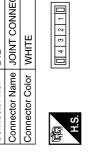
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	FRONT COMBINATION LAMP LH	CK		Signal Name	ı
E327		or BLACK		Color of Wire	മ
Connector No.	Connector Name	Connector Color	京 H.S.	Terminal No.	8





Signal Name

Color of Wire

Terminal No.

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		Connector Name   JOINT CONNECTOR-B09	IIE III	4 3 2 1	Signal Name	ı	ı
Г	. B11	me JOII	lor WH	4	Color of Wire	Ь	۵
	Connector No.	Connector Na	Connector Color WHITE	原 H.S.	Terminal No.	-	٥

FRONT COMBINATI LAMP RH	GRAY	2 1
压力	g	

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E332

Connector No.

Connector Name Connector Color







	Signal Name	ı	ı
Color of	Wire	Œ	В
	Terminal No.	-	2

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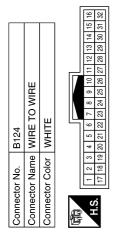
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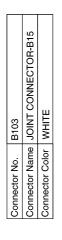
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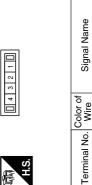
Connector No. B32 Connector Name WIRE TO WIRE Connector Color WHITE  Terminal No. Wire  Signal Name  18 L	Connector No.   B101
Signal Name	Terminal No. Wire Signal Name 89A L – 90A P – 1
Connector No.   B16   Connector Name   JOINT CONNECTOR-B11   Connector Color   WHITE   Connector Color of   Signal Name   Terminal No.   Wire   Signal Name   Terminal No.   Wire   Color of   Signal Name   Terminal No.   Color of   Color o	Connector Name   WIRE TO WIRE

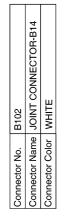
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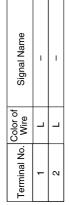


Signal Name	1	1
Color of Wire	Г	Ь
Terminal No.	18	19









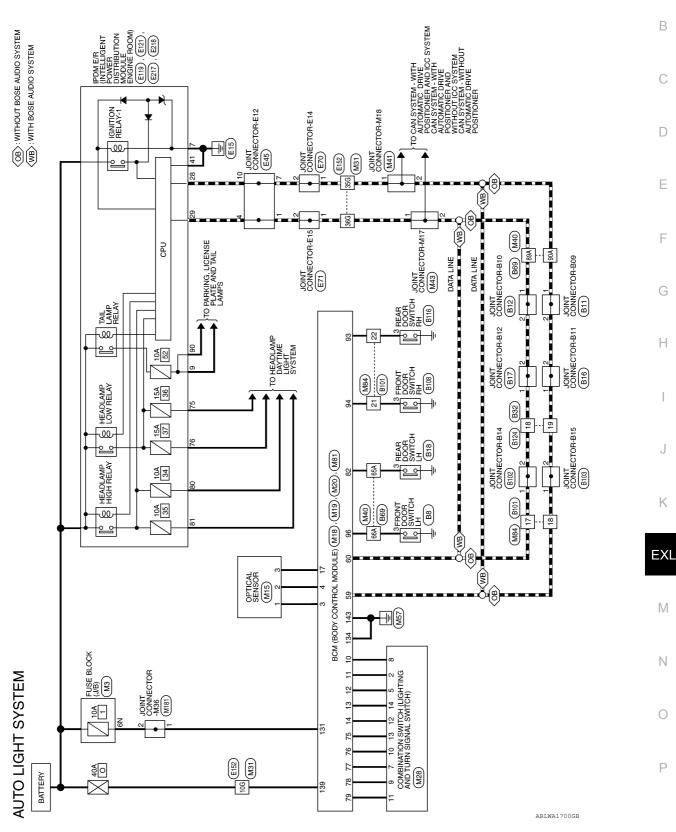
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# **AUTO LIGHT SYSTEM**

Wiring Diagram



DR DOOR SW

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Connector Name BCM (BODY CONTROL MODULE)

M18

Connector No.

Connector Color GREEN

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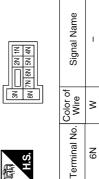
# AUTO LIGHT SYSTEM CONNECTORS

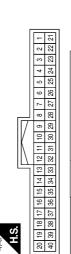


Connector Name OPTICAL SENSOR
Connector Color WHITE M15

Connector No.

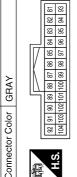






	ئو بواور	
ر	Wire	Signal Name
	>	A/L POWER SUPPLY 5V
	G	A/L SIGNAL
	۵	COMBI SW IN 5
	Ь	COMBI SW IN 4
	^	COMBI SW IN 3
	8	COMBI SW IN 2
	Ь	COMBI SW IN 1
	В	GND RF A/L

Connector No.	M20
Connector Name	Connector Name   BCM (BODY CONTROL   MODULE)
Connector Color GRAY	GRAY



ī	88	101	l
	96	102	l
	91	103	l
	35	104	
	Į.		
		_	

Signal Name	RL DOOR SV	RR DOOR SI	IS BOOD SV
Color of Wire	×	В	9
Terminal No.	82	93	94

233	Signal Name	POWER	OUTPUT	GNE
	Color of Wire	×	g	а
H.S.	Terminal No.	-	2	e

Signal Name	CAN-L	CAN-H	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Color of Wire	۵	Γ	BG	Ь	Ь	M	W
Terminal No.	29	09	22	92	77	78	62

Connector No.	ĭ	Sct	ō	ဍ		_	M19	6											
Connector Name BCM (BODY CONTROL MODULE)	Ĕ	ᅜ	b	Na	m.	0	88	Z⊠	BCM (BOD MODULE)		ž		Z	ĽĔ I	占				
Connector Color   BLACK	ĭ	ect	or	Co	lor	_	BL	AC	X										
惛																			
7	H.S.						L					-							
		.					Ħ	$  \rangle$	Λ	V	17								
99	59	28	27	26	55	54	53	52	59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41	20	49	48	47	46	45	4	43	42	4
80	79	78	77	9/	75	74	73	72	80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62	20	69	89	67	99	92	64	63	62	19
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	l	l

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M40 WIRE TO WIRE WHITE	1.0   2.0   3.0   4.0   5.0   10.0   1.0   2.0   3.0   4.0   5.0   1.0   2.0   3.0   4.0   2.0   1.0   2.0   3.0	Signal Name	ı	1	1	ı
	114  122   122	Color of Wire	8	BG	_	Ь
Connector No. Connector Name Connector Color	S. H. S.	Terminal No.	65A	66A	89A	90A
Connector No. M31 Connector Name WIRE TO WIRE Connector Color WHITE	116 26 36 46 56 66 76 86 96 106 116 126 136 146 56 67 76 86 96 106 226 236 246 56 116 126 136 146 156 146 156 146 146 226 236 236 246 256 256 256 256 256 256 256 316 226 236 236 236 236 236 236 256 256 256 256 256 256 256 256 256 25	Terminal No. Wire Signal Name	10G W –	35G P –	36G L –	
Connector No. M28 Connector Name COMBINATION SWITCH Connector Color WHITE	1   2   3   4   5   6					
ame COM						
Connector No. M28 Connector Name COMBI Connector Color WHITE	Terminal No. 2 5 5 7 7 7 11 11 11 11 11 11 11 11 11 11 11					

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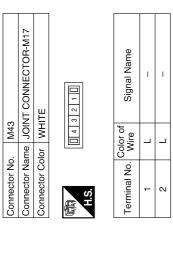
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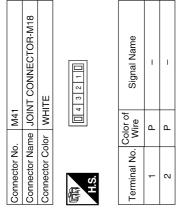
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Connector No.	M81
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color WHITE	WHITE

Sonnector Na	me BCN MOI	Connector Name BCM (BODY CONTROL MODULE)
Connector Color	lor WHITE	ITE
प्रौते H.S.	137136135	
Terminal No.	Color of Wire	Signal Name
131	>	BAT BCM FUSE
134	В	GND2
139	Μ	BAT POWER F/L
143	В	GND1





Connector Name JOINT Connector Color BLUE	BLUE 8	Connector Name JOINT CONNECTOR-E12  Connector Color BLUE
Connector Color	BLU	7 6 5 4 3
		7 6 6 5 4 3
H.S. 12 11 10 9		
Terminal No. W	Color of Wire	Signal Name
-	_	ı
4	_	1
7	4	ı
10	Ь	ı

31	JOINT CONNECTOR-M36	ITE	143211	Signal Name	I	1
. M181		lor WH	4	Color of Wire	×	×
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No.	-	2

			1 4					
4	WIRE TO WIRE	HTE	14     13     12     11     10     9     8     7     6     5     4     3     2       30     29     28     27     26     25     24     23     22     21     20     19     18	Signal Name	ı	ı	ı	1
. M84	me WII	lor	5 14 13 12 11 1 30 29 28 27	Color of Wire	_	۵	g	Œ
Connector No.	Connector Name	Connector Color WHITE	H.S. 32 31	Terminal No.	17	18	21	22

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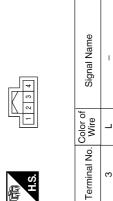
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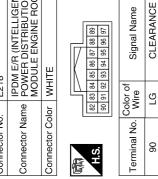
stor No. E119 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) stor Color WHITE	HS.   19 20   21   22   23   24   25   27   28   29   30   31   28   23   34   34   35   34   35   34   35   34   35   34   35   34   34	Terminal No. Color of Signal Name  10G P
Connector No. E71 Connector Name JOINT CONNECTOR-E15 Connector Color BLACK	Terminal No. Color of Signal Name	Connector No.   E152   Connector Name   WIRE TO WIRE   Connector Name   WIRE TO WIRE   Connector Color   WHITE   S6 46 36 26 16   Connector Color   WHITE   S6 46 36 26 16   Connector Color   Connector   Connector Color   Connector   Conne
Connector No. E70 Connector Name JOINT CONNECTOR-E14 Connector Color BLACK	Terminal No. Wire Signal Name	Connector No. E121 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE  Terminal No. Wire Signal Name  7 B GND (POWER)  9 G TAIL RH

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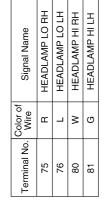










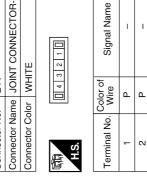


Connector No. B16 Connector Name JOINT CONNECTOR-B11 Connector Color WHITE	3 2 1	Signal Name	-	
. B16 me JOINT (lor WHITE	4	Color of Wire	Ф	۵
Connector No. Connector Name Connector Color	H.S.	Terminal No.	-	c

Connector No.	). B12	
Connector Name		JOINT CONNECTOR-B10
Connector Color WHITE	lor WH	IITE
H.S.	4	4 3 2 1 1
Terminal No.	Color of Wire	Signal Name
-	_	1
2	٦	1

o.  B11	nector Name   JOINT CONNECTOR-B(	nector Color WHITE	0 4 3 2 1 1	
nector No.	ector N	ector C	, có	

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Connector No. B32  Connector Name WIRE TO WIRE  Connector Color   WHITE  Terminal No.   Color of   Signal Name   S	18 L 19 P 19	Connector No.   B101	
Connector No. B18 Connector Name REAR DOOR SWITCH LH Connector Color WHITE  Terminal No. Color of Signal Name	3 SB	Terminal No.   Color of   Signal Name   65A   SB   -	
Connector No. B17 Connector Name JOINT CONNECTOR-B12 Connector Color   WHITE	2 L L	Connector No.   B69	

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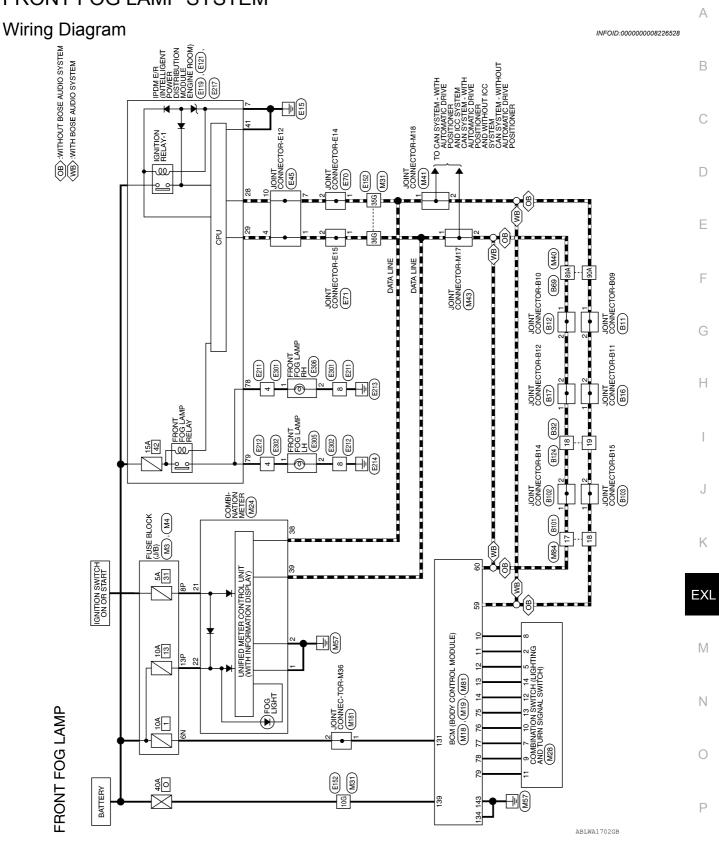
Connector No. B108 Connector Name FRONT DOOR SWITCH RH	TE	4 8	Signal Name	1	
No. B108	Connector Color WHITE		Terminal No. Wire	ГG	
Connector No.	Connector	原 H.S.	Terminal	က	
Connector No. B103 Connector Name JOINT CONNECTOR-B15	HTE	4 3 2 1	Signal Name	ı	ı
o. B10	olor WF		Color of Wire	۵	۵
Connector No. B103 Connector Name JOIN	Connector Color WHITE	原 H.S.	Terminal No. Wire	-	2
Connector No. B102 B102 Connector Name JOINT CONNECTOR-B14		3 2 1	Signal Name	ı	I
). B10	lor WH	4	Color of Wire	_	_
Connector No. B102	Connector Color WHITE	原 H.S.	Color of Wire	-	2

			15 16	32	]			
			13 14 15	29 30 31				
			10 11 12 13 14	27 28		me		
	بيرا		₽	56		ıl Na	1	١,
	WB		6 8	24 25		Signal Name		
	170	世	2 9	22 23		0)		
B124	WIR	WHITE	4	19 20 21		r of re		
	ıme		2 3	18 19		Colc Wi		_
Connector No.	Connector Name WIRE TO WIRE	Connector Color	-	17		Terminal No. Wire	18	19

Connector Name REAR DOOR SWITCH RH Connector Color WHITE  H.S.  Terminal No. Wire Signal Name	ı
me REAF lor WHIT or WHIT wire	Ľ
Connector Name REAR I Connector Color WHITE  ALS.  Terminal No. Wire	က

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# FRONT FOG LAMP SYSTEM





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	2	22			_		
	က	23					
	4	24					
	2	25			2	4	က
	9	56		πe	Z	Z	
	7	27 26 25 24 23 22 21		Signal Name	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3
	8	82		<u>=</u>	0)	55	5
117	6	40 39 38 37 36 35 34 33 32 31 30 29 28		gus	MB	MB	8
11/	10	8		S	Ö	ō	ΙŌ
- 11	Ξ	31			0	0	0
\	12	32					
5	19 18 17 16 15 14 13 12 11 10 9	33		Color of Wire			
	4	34		Solor o Wire	₽	Ф	>
	15	35		8 >			
	16	36		0.			
	17	37		Z			
	8	88		na	유	-	2
H.S.	19	39		Ē	_	-	-
橋で	20	9		Terminal No.			
	_		J				

44	۵	COMBI SW IN 1	
onnector No.	. M24		

COMBI SW IN 2

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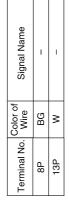
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Connector No.	M24
Connector Name	Connector Name   COMBINATION METER
Connector Color WHITE	WHITE

	2	22	Ι.							
	8	23								
	4	24								
	2	52								
	9	56		ne						
	7	27		a	=	N	_	_	土	Ŧ.
$\Box$	8	83		Signal Name	GND1	GND2	IGN	BAT	CAN-L	CAN-H
117	6	53		guś	Q	മ	_	ш	O	Ö
W		೫		S						
Ш	11 10	3								
$\  \cdot \ $	12	32								
ဌ	18 17 16 15 14 13	33		Color of Wire			(E	_		
	7	뚕		ĕ≅	Ш	В	BG	≥	Ф	_
	15	88		ر در						
	16	98		0.						
	4	37		=						
۸	48	æ		ine	-	8	21	22	38	39
Ź	19	జ		Terminal No.			"	•		
◀	20	9		Te						

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ector No.	M4
ector Name	FUSE BLOCK (J/B)
ector Color	WHITE
<u> </u>	6P 5P 4P 3P 2P
16P	15P14P13P12P11P10P 9P 8P



CAN-L	CAN-H	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Ь	٦	BG	Ь	Ь	M	Μ
59	09	75	9/	22	78	62
	۵	а –	L P	- L Р В В В	- BB	BB ×

Connector No.	Connector Name	Connector Color

Connector Name FUSE BLOCK (J/B)

Connector No.

Connector Color WHITE

FRONT FOG LAMP CONNECTORS

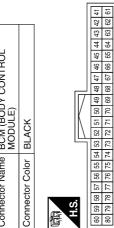


	Signal Name
N N N N N N N N N N N N N N N N N N N	Color of Wire
语.S.H	Terminal No. Wire

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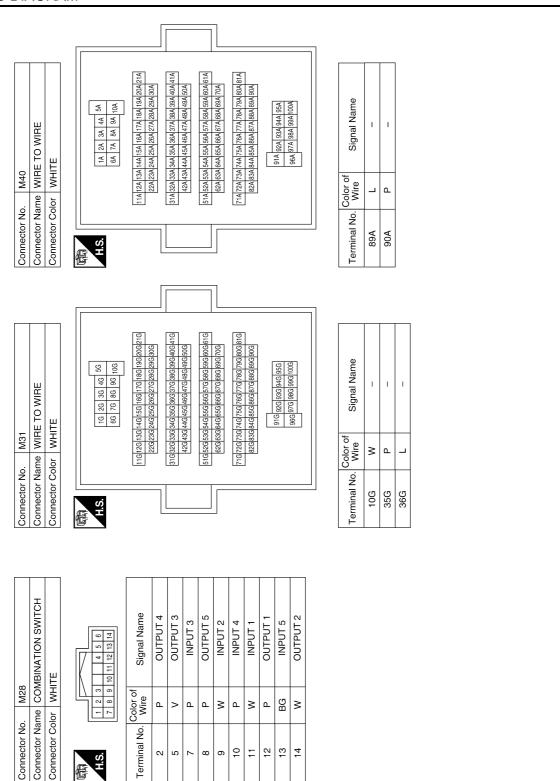
Connector No. M19 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK		
Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK		M19
Connector Color BLACK	Connector Name	BCM (BODY CONTROL MODULE)
	Connector Color	BLACK



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### FRONT FOG LAMP SYSTEM

[XENON TYPE] < WIRING DIAGRAM >



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**EXL-53** Revision: March 2012 2013 Infiniti JX

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Connector No.	. M81	
Connector Name		BCM (BODY CONTROL MODULE)
Connector Color		WHITE
H.S.	143 142	
Terminal No.	Color of Wire	Signal Name
131	≥	BAT BCM FUSE
134	В	GND2
139	≯	BAT POWER F/L
143	В	GND1

	Connector Name BCM (BODY CONTROL MODULE)	ITE	157  158  158  158  159  158    158	Signal Name	BAT BCM FUSE	GND2	BAT POWER F/L	GND1
M81	ne BCI MO	or WH	137 136 135	Color of Wire	8	В	>	В
Connector No.	Connector Nar	Connector Color WHITE	南 H.S.	Terminal No.	131	134	139	143
	CTOR-M17			Name				

	me	$\top$	ō	143	Colo	>	m	>	m	
Connector No.	Connector Name		Connector Color	南 H.S.	Terminal No.	131	134	139	143	
			-							
	Connector Name JOINT CONNECTOR-M17	ITE		3 2 1	Signal Name	I	1			
M43	IOL an	Y WH		4 3	color of Wire	_	_			
Connector No.	Connector Nam	Connector Color WHITE		原 H.S.	Terminal No. Wire	-	2			
			_							
	ector Name JOINT CONNECTOR-M18	TE		3 2 1	Signal Name	ı	ı			
M41	e JOIN	r WHI		4	olor of Wire	۵	۵			
ector No. M41	ector Nam	ector Color WHITE			inal No. Wire	-	2			

_	or No.   E45	Connector Name JOINT CONNECTOR-E12	Connector Color BLUE		12 11 10 9 8 7 6 5 4 3 2 1		Terminal No. Wire Signal Name		- -	
	Connector No.	Connecto	Connecto		H.S.		Terminal	-	4	
	81	Connector Name   JOINT CONNECTOR-M36	НТЕ		3 2 1 1		f Signal Name	ı	ı	
	. M1	oc am	lor W		4		Color or Wire	8	Μ	
	Connector No. M181	Connector Na	Connector Color WHITE		H.S.		Terminal No. Wire	1	2	
					1-1	ה				
		E TO WIRE	TE		11 10 9 8 7 6 5 4 3 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Signal Name	ı	ı	
	M84	ne WIR	or WH		5 14 13 12 13 29 28		Solor of Wire	٦	Д	
	Connector No.	Connector Name   WIRE T	Connector Color WHITE	Œ	H.S. 16 15		Terminal No. Wire	17	18	

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Connector No.   E119   PDM E/R (INTELLIGENT   POWER DISTRIBUTION   MODULE ENGINE ROOM)   Connector Color   WHITE	al No. Wire Signal Name  CAN-L CAN-H B GND (SIGNAL)  Signal Name Color of Signal Name Color o
Connector Na. Connector Col	Terminal No.  28 29 41  10G 35G 36G
Vo. E71  Name JOINT CONNECTOR-E15  Color BLACK  6 5 4 3 2 1	Color of Signal Name
Connector No. Connector Color	Connector No. Color Connector No. Connector Name Connector Color AHS.
Connector No. E70 Connector Name JOINT CONNECTOR-E14 Connector Color BLACK  H.S.	Terminal No. Wire Signal Name  1 P

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Revision: March 2012 **EXL-55** 2013 Infiniti JX

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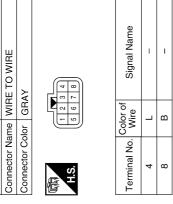
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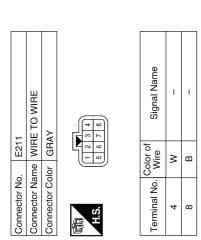
E212

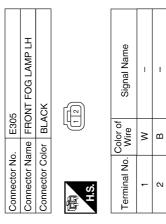
Connector No.

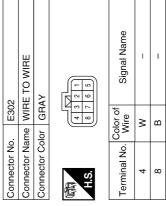
	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM	НТЕ	74   179   179   180   181	Signal Name	FR FOG LAMP RH
. E217	IPD OM MO	lor WF	74 77 78	Color of Wire	≥
Connector No.	Connector Na	Connector Color WHITE	崎 H.S.	Terminal No. Wire	78
				lame	

Signal Name	FR FOG LAMP RH	FR FOG LAMP LH
Color of Wire	W	_
Terminal No.	78	62









Connector No.	. E301	)1
Connector Name WIRE TO WIRE	ıme WIF	RE TO WIRE
Connector Color GRAY	olor GR	АҮ
H.S.	8 4	6 5 1
Terminal No.	Color of Wire	Signal Name
4	Μ	ı
α	æ	ı

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	10					
	Connector Name   JOINT CONNECTOR-B10	те	3 2 1 🗍	Signal Name	1	1
. B12	me JOIN	lor WHI		Color of Wire	_	_
Connector No. B12	Connector Na	Connector Color WHITE	原 H.S.	Terminal No. Wire	-	2
1	Connector Name JOINT CONNECTOR-B09	НТЕ	4 3 2 1	Signal Name	-	ı
. B11	me JOI	lor WF	4	Color of Wire	Ь	۵
Connector No.	Connector Na	Connector Color WHITE	原 H.S.	Terminal No. Wire	1	2
			· —			
90;	Connector Name   FRONT FOG LAMP RH	ACK		Signal Name	ı	ı
). E306	ıme FR	lor BL		Color o Wire	8	В
Connector No.	Connector Na	Connector Color BLACK	H.S.	Terminal No. Wire	-	2

Connector No. B32 Connector Name WIRE TO WIRE Connector Color WHITE	Si   Si   Si   Si   Si   Si   Si   Si		Connector No. Connector Name Connector Color Til	2 2 2 2 1 20 19 18 2 Aame
---	---------------------------------------	--	--	---------------------------

	JOINT CONNECTOR-B12	ТЕ	4 3 2 1 0	Signal Name	1	I
. B17	me JOII	lor WHITE	4	Color of Wire	Г	-
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1	0

Connector No.	). B16	9
Connector Na	ume JO	Connector Name JOINT CONNECTOR-B11
Connector Color WHITE	lor WI	HITE
H.S.	4	4 3 2 1 0
Terminal No.	Color of Wire	f Signal Name
-	۵	ı
c	٥	

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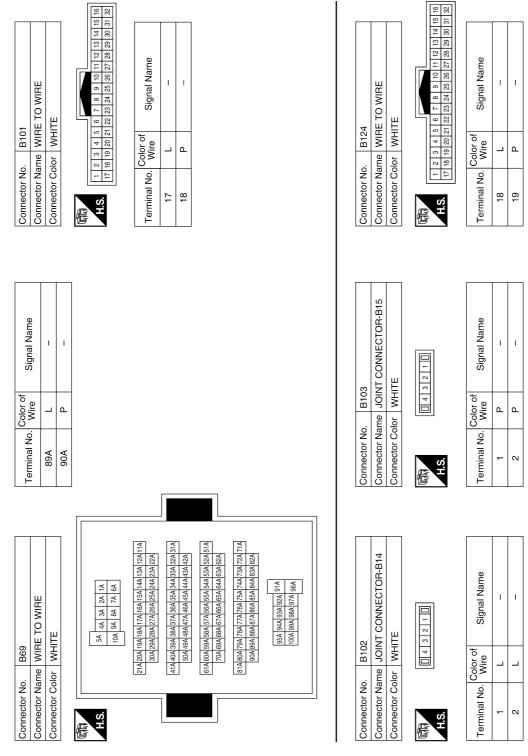
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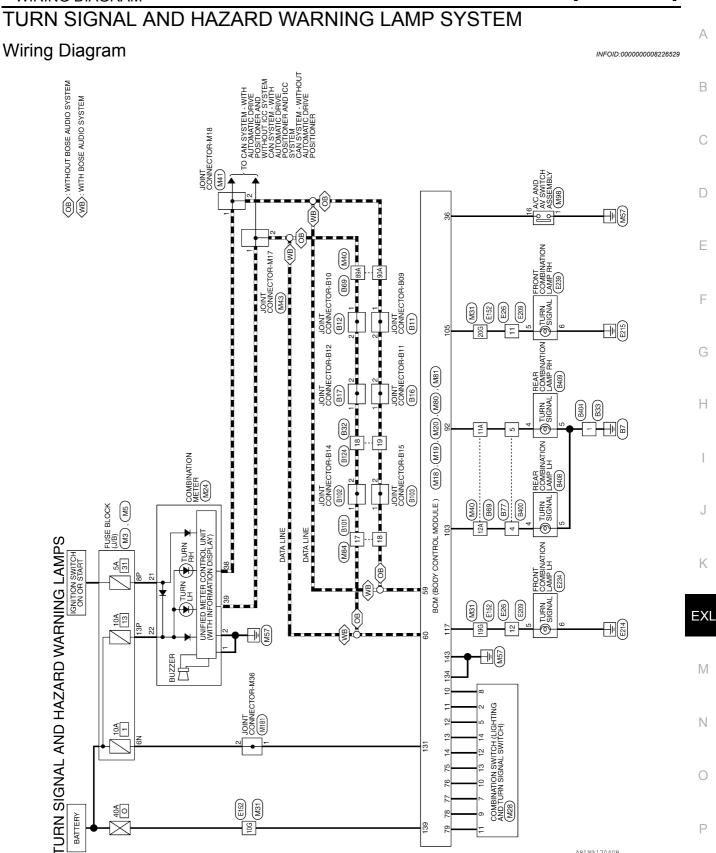
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[XENON TYPE] < WIRING DIAGRAM >



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BATTERY

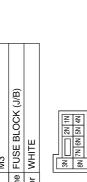
# TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS

Connector No.	M3
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	WHITE

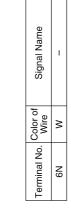
Connector Name FUSE BLOCK (J/B)

Connector No.

Connector Color WHITE



7P 6P 5P 4P 3P 2P 1P 16P 15P 15P 18P



				22 21								
	BCM (BODY CONTROL MODULE)	GREEN		12 11 10 9 8 7 6 5 4 3 32 31 30 29 28 27 26 25 24 23 3	Signal Name	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1	HAZARD SW	
M18		_		15 14 13 35 34 33	Color of Wire	₾	۵	>	8	۵	ГG	
Connector No.	Connector Name	Connector Color	原列 H.S.	20 19 18 17 16 40 39 38 37 36 3	Terminal No.	10	11	12	13	14	98	

Signal Name	ı	ı	
Color of Wire	BG	>	
minal No.	8P	13P	

Signal Name	1	I	
Color of Wire	BG	8	
Terminal No. Wire	8P	13P	

Connector Name BCM (BODY CONTROL MODULE)

M19

Connector No.

Connector Color BLACK

唇

Connector Name COMBINATION METER

Connector No.

Connector Color WHITE



100 99 98 97 96 95 94 93	Signal Name	RR FLASHER	RL FLASHER
90 89	Color of Wire	<u>~</u>	BG
H.S.	Terminal No.	92	103

Signal Name

Color of Wire

Terminal No.

Ω В

GND2

BG

21

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≥ Д CAN-H

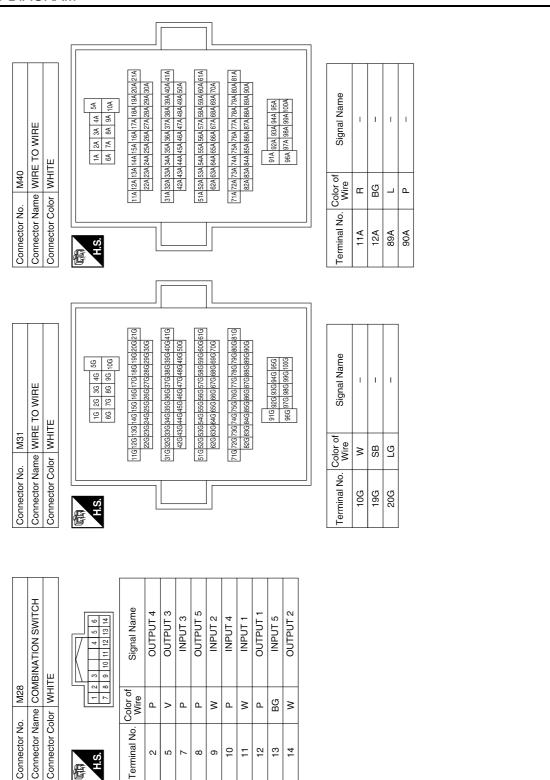
CAN-L BAT <u>I</u>

3 88 88

				٦.								
		42 41	62 61									
		43	83									
		4	94					2	4	3	2	-
		45	65		ē			5	UT	T	UT	5
		46	99		Signal Name	_	I	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
		47	67		Z	CAN-L	CAN-H	اي	Š	Š	3W	Š
Г	Ļ	48	88		ına	C	C	<u></u>	31 8	3 6	31 8	8
- 11.	/	49	9 02		Siç			Ž	ME	ME	ME	Ž
- 17		20	2					吕	용	용	8	8
		22	7									_
	1	52	72		4-							
_	٦	53	74 73		Color of Wire			ניז			1	_
		32	74		olor c Wire	Д	_	BG	Д	Ф	>	≥
		22	76 75									
		29	9/		. ⊙							
		22	78 77		<u> </u>		_			.		_
ιń	ı	82	8		Ĭ.	59	9	75	9/	77	78	79
H.S.		29	79		Terminal No.							
1	Į	09	8		<del>_</del>							

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< WIRING DIAGRAM > [XENON TYPE]



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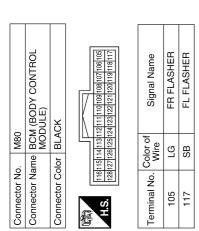
EXL

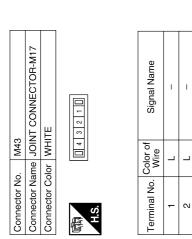
M

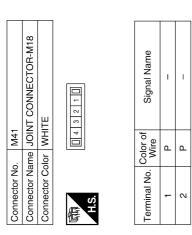
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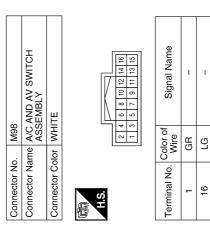
Р

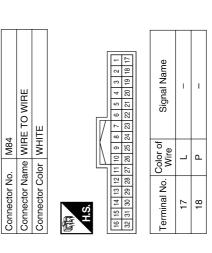
< WIRING DIAGRAM > [XENON TYPE]







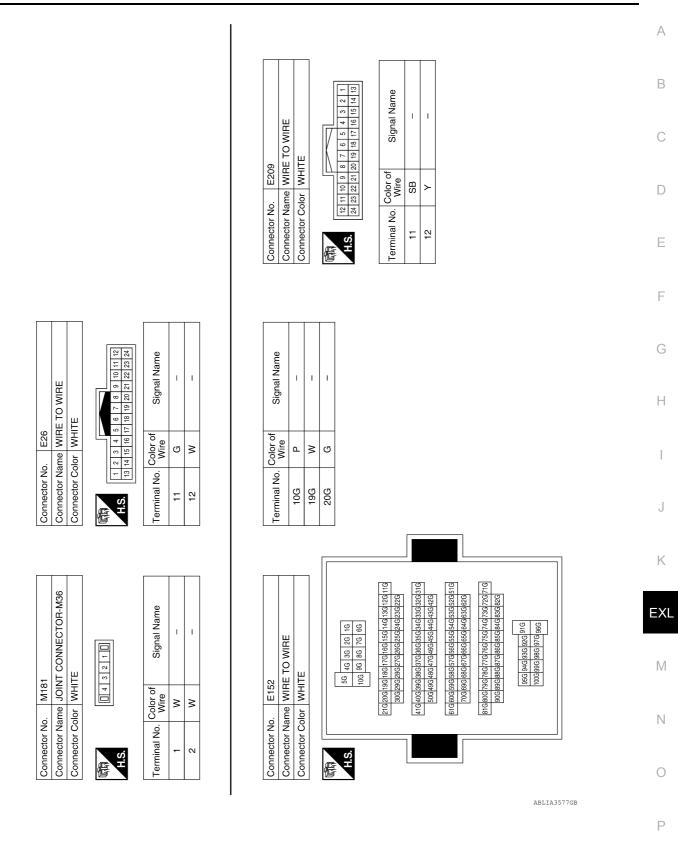




Connector No.	. M81	
Connector Na	ume BCN MOI	Connector Name   BCM (BODY CONTROL MODULE)
Connector Color WHITE	olor WH	TE
而 H.S.	13713	197  198  195  194    190   198   198   198
Terminal No. Wire	Color of Wire	Signal Name
131	Μ	BAT BCM FUSE
134	В	GND 2
139	Μ	BAT POWER F/L
143	В	GND 1

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< WIRING DIAGRAM > [XENON TYPE]

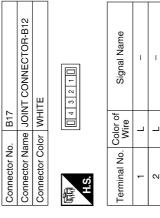


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[XENON TYPE] < WIRING DIAGRAM >

Connector No.	o. B11	
connector Na	ame JOII	Connector Name JOINT CONNECTOR-B09
Connector Color WHITE	olor WH	ITE
H.S.		3 2 1 0
Terminal No. Wire	Color of Wire	Signal Name
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2	۵	_

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3	FRONT COMBINATION AMP RH	1AY	
5	BO AM	<b>3RAY</b>	

Signal Na	_	I
Color of Wire	SB	В
Terminal No.	5	9

Connector No.	B16
Connector Name	Connector Name JOINT CONNECTOR-B1
Connector Color WHITE	WHITE

Signal Name	Color of Wire P	Terminal No.
Signal Name	Color of Wire P	
4 3 2 1	4	H.S.
ІТЕ	lor WH	Connector Color WHITE
Connector Name   JOINT CONNECTOR-I	ıme JOII	nector Na
	).   BIO	Connector No.

E234	Connector Name FRONT COMBINATION LAMP LH	GRAY	
Connector No.	Connector Name	Connector Color GRAY	

Connector Name Connector Color

Connector No.

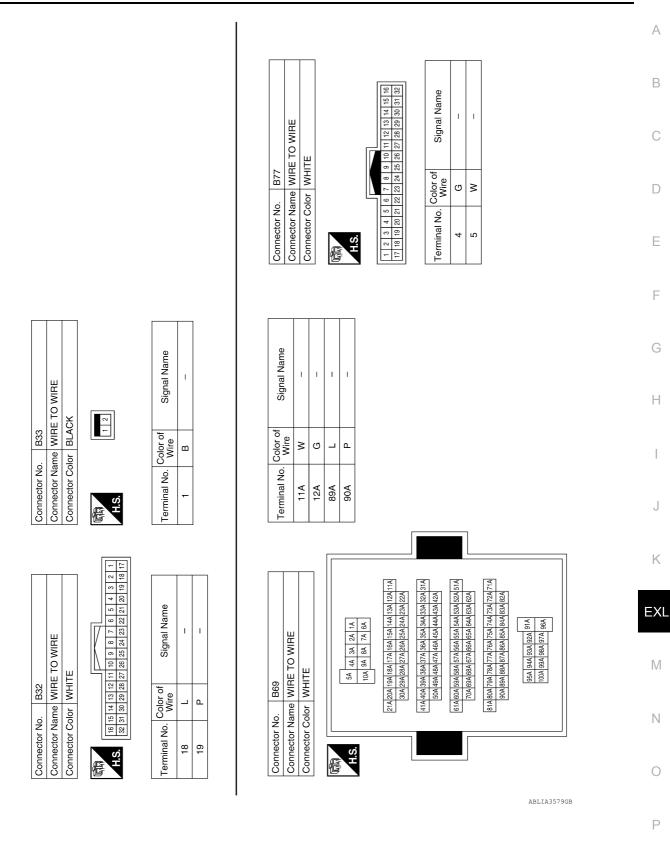
	Signal Name	1	ı
	Color of Wire	Υ	В
H.S.	Terminal No. Wire	2	9

B12	Connector Name JOINT CONNECTOR-B10	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

Connector Name JOINT CONNECTOR-B10	ПЕ	0 4 3 2 1 0	Signal Name	ı	1
Ime JOII	lor WH	4	Color of Wire	٦	_
Connector Na	Connector Color WHITE	是 H.S.	Terminal No. Wire	-	٥

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< WIRING DIAGRAM > [XENON TYPE]



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[XENON TYPE] < WIRING DIAGRAM >

Connector No.         B103           Connector Name         JOINT CONNECTOR-B15           Connector Color         WHITE           Connector Color         WHITE           H.S.         Terminal No.         Color of Wire         Signal Name           1         L         Terminal No.         Color of Wire         Signal Name           2         L         T         T           2         L         T         T		-			
NT CONNECTOR-B14  ITE  Signal Name	3 NT CONNECTOR-B15 TF	2 2 1	Signal Name	ı	I
NT CONNECTOR-B14  ITE  Signal Name	me JOII	4	Color of Wire	Ъ	Ь
B102    JOINT CONNECTOR-B14	Connector No	H.S.	Terminal No.	-	2
	B102  JOINT CONNECTOR-B14  WHITE			-	I

Signal Name

Color of Wire \_ ᇫ

Terminal No. 17 8

Connector Name WIRE TO WIRE Connector Color WHITE

B101

Connector No.

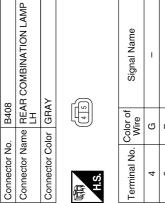
Connector No. B404	Connector Name WIRE TO WIRE	Connector Color BLACK	H.S.	Terminal No. Color of Wire Signal Name	1 B -	
Connector No. B400	Connector Name WIRE TO WIRE	Connector Color WHITE	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	Terminal No. Color of Signal Name Wire	4 G –	- M
Connector No. B124	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Color of Signal Name Wire	18 L –	19 P –

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[XENON TYPE] < WIRING DIAGRAM >

Connector No.	B409
Sonnector Name	Connector Name REAR COMBINATION LAMP
Connector Color GRAY	GRAY

Signal Name	-	ı	
Color of Wire	Μ	GR	
Terminal No. Wire	4	5	



Signal Name	-	_
Color of Wire	G	В
Terminal No.	4	5

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# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram INFOID:0000000008226530 TO CAN S'STEM - WITH
AUTONAMIC DRIVE
FOSTIONER AND WITHOUT
CAN S'STEM
AUTONAMIC DRIVE
FOSTIONER AND ICC
S'STEM
AUTONAMIC DRIVE
AUTONAMIC DRIVE
AUTONAMIC DRIVE
AUTONAMIC DRIVE
AUTONAMIC BRIVE
AUTONAMIC BRIVE
FOSTIONAMIC BRIVE
FOS IPDM E/R
(INTELLGENT
POWER
DISTRIBUTION
MODULE
ENGINE ROOM)
(E119), (E121), JOINT CONNECTOR-E12 (E45) JOINT CONNECTOR-M18 (M41) JOINT CONNECTOR-E14 M31 ON IGNITION (%) JOINT CONNECTOR-E15 (E71) JOINT CONNECTOR-M17 (M43) DATA LINE JOINT CONNECTOR-B10 (B12) JOINT CONNECTOR-B09 (B11) (Beg) FRONT COMBINATION LAMP LH (E235), (E329) SIDE MARKER FRONT COMBINATION LAMP RH (E240), (E333) JOINT CONNECTOR-B12 (B17) JOINT CONNECTOR-B11 (B16) E325 (E232) (2) PARKING SIDE -E233 - [E] **⊚** TAIL LAMP RELAY 10A 52 JOINT CONNECTOR-B15 (B103) PARKING JOINT CONNECTOR-B14 10A -QQ **⊚** (B102) REAR COMBI-NATION LAMP RH (B407) FUSE BLOCK (J/B) (M3), (E28), (B29) B34 B34 E34 B405 Ø TAIL 17 (8) PARKING, LICENSE PLATE AND TAIL LAMPS LICENSE PLATE LAMP RH (D562) JOINT CONNECTOR-B01 (MB) LICENSE PLATE LAMP LH (D561) Bes B46 D505 D502 B47 D501 0507 (880 W57 BCM (BODY CONTROL MODULE) (M19), (M19), (M81) REAR COMBI-NATION LAMP LH COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) B404 (B77) B33 B400 ΤAIL JOINT CONNEC-TOR-M36 (M181) E152 M31 \$ 0 BATTERY

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# PARKING, LICENSE PLATE AND TAIL LAMPS CONNECTORS

Connector No.

M19	lame BCM (BODY CONTROL	MODULE)
Connector No.	Connector Name	
M18	Name BCM (BODY CONTROL	MODULE)
Connector No.	Connector Name	
	SE BLOCK (J/B)	<u> </u>

M18	Connector Name   BCM (BODY CONTROL MODULE)	GREEN
Connector No.	Connector Name	Connector Color GREEN
		]

Connector No.	M18
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GREEN	GREEN

BLACK

Connector Color

Connector Name	ame FUS	FUSE BLOCK (J/B)
Connector Color	olor WHITE	ІТЕ
可可 H.S.	NE NE	N   N   N   N   N   N   N   N   N   N
Terminal No.	Color of Wire	Signal Name
N9	>	ı

				_			
Signal Name	CAN-L	CAN-H	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Color of Wire	۵	٦	BG	۵	۵	M	Μ
Terminal No.	59	09	75	9/	77	78	6/

Signal Name	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1	
Color of Wire	Ь	Ь	>	M	Ь	
Terminal No.	10	11	12	13	14	

	Signal Name	OUTPUT 4	OUTPUT 3	8 TUPNI	OUTPUT 5	INPUT 2	1NPUT 4	INPUT 1	OUTPUT 1	S TUANI	OUTPUT 2
	Color of Wire	۵	>	Ь	۵	>	Ь	>	Ь	BG	×
	Terminal No.	2	5	7	8	6	10	1	12	13	14
,											



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Connector No.	M31		Connector No.	o. M40		Conne	Connector No.	M41
Connector Name	Connector Name WIRE TO WIRE		Connector Name		WIRE TO WIRE	Conne	Connector Name	JOINT CONNECTOR-M18
		Г		<b>⊣</b> Ⅱ				WIIE
	1G 2G 3G 4G 5G 6G 7G 8G 9G 10G		H.S.		14 24 34 44 54 64 74 84 94 104	H.S.		4 3 2 1
15				11A 12A 13A	11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A	Termir	Terminal No. W	Color of Signal Name
-4	229 239 249 259 269 279 289 299			22A 23A	22a 23a 24a 25a 26a 27a 28a 29a 30a			-
191	31G 32G 33G 34G 35G 36G 37G 38G 39G 40G 41G 42G 43G 44G 45G 46G 47G 48G 49G 50G			31A 32A 33A 42A 43A	31 A 32A 33A 34A 35A 36A 37A 88A 38A 40A 41A 42A 43A 44A 45A 46A 46A 47A 48A 49A 50A	α		
191	510 520 530 540 550 560 570 580 590 600 610  620 630 640 650 660 670 680 690 700			51A 52A 53A 62A 63A	51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A 62A 63A 64A 65A 66A 67A 68A 69A 70A			
5	71G72G73G74G75G776G77G78G79G80G81G 82G83G85G86G87G88G89G90G			71A 72A 73A 82A 83A	774 724 734 744 754 764 777 777 778 794 804 814 824 834 834 834 834 834 834 834 834 834 83			
	916   92G   99G  94G   95G   96G   9				91A 92A 93A 94A 95A 96A 97A 98A 99A100A			
		<u> </u>				<b>.</b>		
ĕ≅	Color of Signal Name		Terminal No.	Color of Wire	Signal Name			
>			89A	_	1			
"	ı		90A	۵	ı			
_	7							

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# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

[XENON TYPE] < WIRING DIAGRAM >

34	Connector Name WIRE TO WIRE	HITE		16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 2 1 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 17	f Signal Name	ı	1		
. M84	me WI	or W		1 30 29	Color o Wire	_	Д		
Connector No.	Connector Na	Connector Color WHITE	Œ	رن ن	Terminal No. Wire	17	18		
		T	7						
	CM (BODY CONTROL	JODULE)		25   134   130   138   138   138	Signal Name	BAT BCM FUSE	GND 2	BAT POWER F/L	GND 1
		J   [	I	II≌⊟I					

	Connector Name FUSE BLOCK (J/B)	ITE	M 7M 6M 5M	Signal Name	1
. E28	me FUS	lor WH	4M 3M 10M 9M 8M 7M	Color of Wire	_
Connector No.	Connector Na	Connector Color WHITE	原 H.S.	Terminal No.	W9

Connector No.	). M181	H
Connector Na	ame JOII	Connector Name JOINT CONNECTOR-M36
Connector Color	olor WHITE	ITE
响 H.S.	4 3	4 3 2 1
Terminal No.	Color of Wire	Signal Name
-	8	ı
	14/	

_	Connector Name BCM (BODY CON	MODULE)	HTE		Signal Na	BAT BCM F	GND	BAT POWE	GND 1
M81	ne BC	Ž	or WH	143 142	Color of Wire	≥	В	×	В
Connector No.	Connector Nar		Connector Color WHITE	(南) H.S.	Terminal No. Wire	131	134	139	143
			7				1	ı	
.3	Connector Name   JOINT CONNECTOR-M17	## ##		4 3 2 1	Signal Name	ı	ı		
M43	ne JO	or WF			Color of Wire	_	ب		
Connector No.	Connector Nar	Connector Color   WHITE		原 H.S.	Terminal No. Wire	-	2		

Signal Name	1	1	
Color of Wire	*	M	
Terminal No.	-	2	

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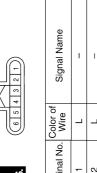
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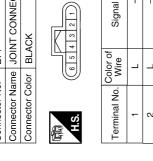
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# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

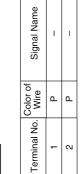
[XENON TYPE] < WIRING DIAGRAM >

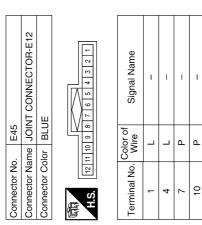
Connector No.	E71
Connector Name	Connector Name JOINT CONNECTOR-E15
Connector Color BLACK	BLACK



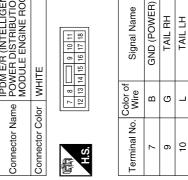


E70	Connector Name JOINT CONNECTOR-E14	BLACK	
Connector No.	Connector Name	Connector Color	

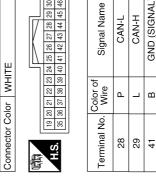




Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



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Connector Name	Z	aп	<u>e</u>	₽₽Ş	들었다		뜻분백	들었습	F # 5	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	355	щQ Ž	₽zŚ	=		
Connector Color WHITE	Š	8	Ž		三	世										
								N	<i> </i>	I IГ/	_					
						ī										
J.	19	19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	21	22	23	75	52	56	27	88	83	8	8	33	8	34
	35	35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	37	38	39	40	41	42	43	44	45	46	47	48	49	20
_																I



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E119

Connector No.

[XENON TYPE] < WIRING DIAGRAM >

Connector No. E218  Connector Name POWER DISTRIBUTION	_	Connector Color WHITE	Terminal No.   Color of   Cole   Co		Connector Color GRAY  中  H.S.	Terminal No. Wire Signal Name	7 LG –	п В
<u>ŏ</u>   ŏ		<u>ŏ</u> ]		<u> </u>		Ě		
Signal Name	1	1		E233 WIRE TO WIRE GRAY	S   C   C   C   C   C   C   C   C   C	Signal Name	I	1
Color of Wire	. a				8 7 7	Color of Wire	В	9
Terminal No.	35G	36G		Connector No. Connector Name Connector Color	赋 H.S.	Terminal No.	က	
		Г						
E152 WIRE TO WIRE	WHIIE		100   100	E232 WIRE TO WIRE BLACK	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name	ı	1
ame WIRE	_		27.0000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000	0	8 4 8 7 3	Color of Wire	В	ГС
Connector No.	Connector Color		H.S.	Connector No. Connector Name Connector Color	赋 H.S.	Terminal No.	က	7
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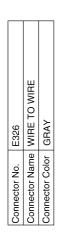
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**EXL-73** Revision: March 2012 2013 Infiniti JX

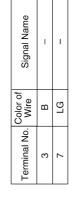
[XENON TYPE] < WIRING DIAGRAM >



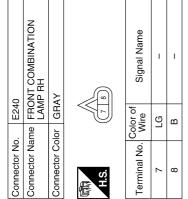
Connector Name | WIRE TO WIRE E325

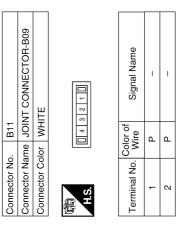
Connector No.

	Signal Name	I	I
(- u)	Color of Wire	В	ГС
品.	Terminal No. Wire	3	7



Connector Color BLACK	lor BLA	CK
原动 H.S.	5 6 5	(4 80)
Terminal No.	Color of Wire	Signal Name
က	В	ı
7	97	-





Connector No.		3
Connector Name		FRONT COMBINATION LAMP RH
Connector Color	ır GRAY	47
Terminal No.	Color of Wire	Signal Name
	LG	1
	В	I

Connector No.	. E329	6
Connector Name		FRONT COMBINATION LAMP LH
Connector Color GRAY	lor GR/	47
明.S.		
Terminal No. Wire	Color of Wire	Signal Name
6	ГG	I
10	В	_

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< WIRING DIAGRAM > [XENON TYPE]

Connector No. B17 Connector Name JOINT CONNECTOR-B12 Connector Color WHITE	Terminal No. Wire Signal Name	Connector No. B33 Connector Name WIRE TO WIRE Connector Color BLACK	H.S.  Color of Signal Name  1 B
Connector No. B16 Connector Name JOINT CONNECTOR-B11 Connector Color WHITE  [	Terminal No. Wire Signal Name  1 P	Connector No. B32 Connector Name WIRE TO WIRE Connector Color WHITE	H.S. Terminal No. Wire Signal Name
Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color WHITE  M.S.	Terminal No. Wire Signal Name  1 L –  2 L –	nector No. Inector Name	H.S. Color of Signal Name

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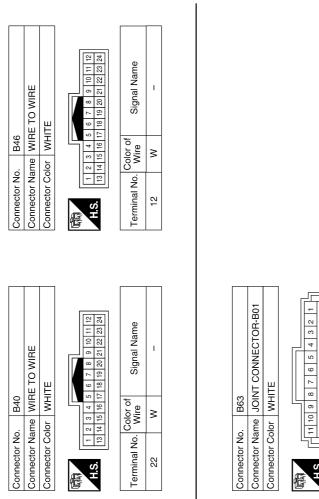
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Revision: March 2012 **EXL-75** 2013 Infiniti JX



	Connector Name JOINT CONNECTOR-B01	ITE	22 21 20 19 18 17 16 15 14 13 12 11 33 32 31 30 29 28 27 26 25 24 23 4	Signal Name	_	-	I
. B63	me JOII	lor WHITE	22 21 20 1	Color of Wire	W	Μ	*
Connector No.	Connector Na	Connector Color	H.S.	Terminal No. Wire	31	35	33
	∃E			al Name			

	WIRE TO WIRE	TE	8 2 3	Signal Name	ı
. B34	me WIR	lor WHITE	1 2 2	Color of Wire	8
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	8

E TO WIRE	ТЕ	S 0 0 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Signal Name	1
me WIR	lor WHITE	- ω	Color of Wire	В
Connector Name WIRE TO WIRE	Connector Color	H.S.	Terminal No.	2

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B47

Connector No.

< WIRING DIAGRAM > [XENON TYPE]

Connector No.   B77
ame OPR-B14
Signal Name  Signal Name  Signal Name  Signal Name
Signal Name   Signal Name
1   1   1   1   1   1   1   1   1   1
Connector No.   B69

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Revision: March 2012 **EXL-77** 2013 Infiniti JX

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< WIRING DIAGRAM > [XENON TYPE]

					Г						
	E TO WIRE	OK		2 1		Signal Name	ı				
. B404	me WIR	or BLA	L		40,000	Wire	В				
Connector No.	Connector Name   WIRE TO WIRE	Connector Color BLACK		H.S.		Terminal No. Wire	-				
			ſ	18 17							
0	E TO WIRE	TE		10 9 8 7 6 5 4 3 26 25 24 23 22 21 20 19		Signal Name	I				
B400	ne WIR	or WHI		16     15     14     13     12     11       32     31     30     29     28     27	10,010	Wire	>				
Connector No.	Connector Name   WIRE TO WIRE	Connector Color WHITE		ιώ		Terminal No. Wire	31				
				32	_						
	E TO WIRE	TE		6 7 8 9 10 11 12 13 14 15 22 23 24 25 26 27 28 29 30 31		Signal Name	1	ı			
B124	me WIR	or WHI		2 3 4 5 18 19 20 21	40	Wire	_	Ф			
Connector No.	Connector Name   WIRE TO WIRE	Connector Color WHITE	E	- □		Terminal No. Wire	18	19			

Connector No.	. B407	
Connector Name	me RE/ LAN	REAR COMBINATION LAMP RH
Connector Color GRAY	olor GR	47
原。 S.H		2 3
Terminal No. Wire	Color of Wire	Signal Name
2	Μ	_
3	ЯĐ	_

Connector No.	B406	9
Connector Na	me RE/ LAN	Connector Name REAR COMBINATION LAMP LH
Connector Color	lor GRAY	ΑΥ
同可 H.S.		2 3
Terminal No.	Color of Wire	Signal Name
2	×	ı
3	В	1

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B405	Connector Name   WIRE TO WIRE	WHITE	3 7 6 5 1	r of Signal Name	_
	me	lor		Colo	≯
Connector No.	Connector Na	Connector Color WHITE	原 H.S.	Terminal No. Wire	8

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[XENON TYPE] < WIRING DIAGRAM >

D502         Connector No.         D505           WIRE TO WIRE         Connector Name         WIRE TO WIRE           WHITE         Connector Color         WHITE	3 2 1 1 3 2 1 1 8 5 4 4 H.S.	Signal Name Terminal No. Wire  Terminal No. Wire  Terminal No. Wire  Terminal No. Wire	D550         Connector No.         D552           WIRE TO WIRE         Connector Name         WIRE TO WIRE           WHITE         Connector Color         WHITE	8 5 4 H.S. 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Signal Name  Terminal No. Wire  Signal Name
Connector No.         D501         D502           Connector Name         WIRE TO WIRE           Connector Name         WIRE TO WIRE           Connector Color         WHITE	12 11 10 9 8 7 6 5 4 3 2 1 24 23 22 21 20 19 18 17 16 15 14 13	Terminal No. Wire Signal Name Color of Y - Color of Z	Connector No.     D507     Connector No.     D550       Connector Name     WIRE TO WIRE       Connector Color     WHITE		Terminal No. Wire Signal Name Terminal No. Wire

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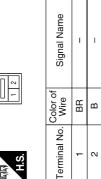
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Connector No.	D562
Connector Name	Connector Name   LICENSE PLATE LAMP RH
Connector Color BROWN	BROWN





D561	Connector Name   LICENSE PLATE LAMP LH	BROWN	1 2	-
Connector No.	Connector Name	Connector Color BROWN	原 H.S.	

Signal Name	-	1
Color of Wire	BR	В
Terminal No.	-	2

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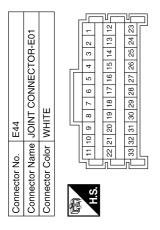
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STOP LAMP

## STOP LAMP CONNECTORS



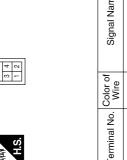
4M 3M C 2M 1M 10M 9M 8M 7M 6M 5M



Signal Name	ı	1	ı	ı
Color of Wire	Д	Ь	ŋ	g
Terminal No. Wire	12	13	19	50

Connector No.	). B46									
Connector Name WIRE TO WIRE	ame WIF	Ę	0	≥	R					
Connector Color WHITE	olor WH	빝								
										_
-	2 3 4	9	9	7	80	6	9	Ξ	9 10 11 12	
	13 14 15 16 17 18 19 20 21 22 23 24	17	18	6	02	<u> </u>	22	23	24	
				П		П				
Terminal No. Wire	Color of Wire			Ś	Signal Name	=	Sa	Ĕ	on.	
24	В					- 1				

E38	Connector Name STOP LAMP SWITCH	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



Signal Name	ı	ı	
Color of Wire	G	۵	
Terminal No.	1	2	

Signal Name	1	_
Color of Wire	9	Ь
Terminal No.	WS	MZ

Connector No.	B33
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color BLACK	BLACK
H.S.	2 -

	Color of Wire	M	
H.S.	Terminal No.	1	

Signal Name

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20 10 260 50 40	Signal Name
30 30 30	or of 'ire





Connector Name FUSE BLOCK (J/B)

B30

Connector No.

Connector Color WHITE



	Colo Wii
H.S.	Terminal No.

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			- 12		
	E TO WIRE	TE	10 9 8 7 6 5 4 3 2 2 2 21 20 19 18 18 2 2 2 2 2 2 2 2 2 3 3 3 4 3 5 5 4 3 5 5 4 3 5 5 4 3 5 5 5 4 5 5 5 5	Signal Name	ı
B40(	ne WIR	or WHI	14 13 12 11 30 29 28 27	Solor of Wire	g
Connector No. B400	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. 16 15 32 31	Terminal No. Wire	15
	E TO WIRE	TE	3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 20 21 22 23 24 25 26 27 28 28 28 30 31 33	Signal Name	1
. B77	me WIR	lor WHI	2 3 4 5 18 19 20 21	Color of Wire	ŋ
Connector No. B77	Connector Name WIRE TO WIRE	Connector Co	H.S.	Terminal No. Color of Wire	15
	E TO WIRE	TE	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name	1
. B47	me WIR	lor WHI	2 9	Color of Wire	В
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire	2

Connector No.	o. B404		Connector No. B406	B406		O	Connector No. B407	B407	
Connector Na	Connector Name WIRE TO WIRE	TO WIRE	Connector Nar	ne REAR C	Connector Name REAR COMBINATION LAMP	0	onnector Nan	ne REAF	Connector Name REAR COMBINATION LAMP
Connector Color BLACK	olor BLACK			5				Æ	
			Connector Color GRAY	or GRAY		O	Connector Color GRAY	or GRA	
H.S.	2		原 H.S.	1 2 3			明.S.		2 3
Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Color of Wire	Solor of Wire	Signal Name	Ē	Terminal No. Color of Wire	Solor of Wire	Signal Name
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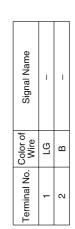
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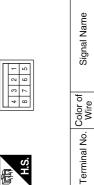
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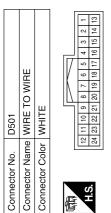
D503	Connector Name   HIGH-MOUNTED STOP   LAMP	BROWN	
Connector No.	Connector Name	Connector Color BROWN	#





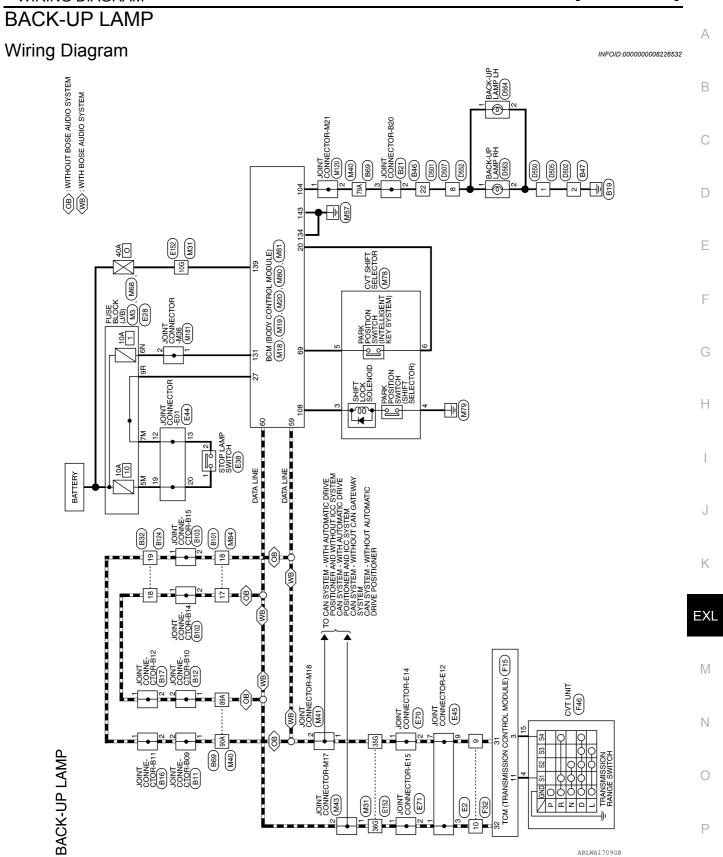


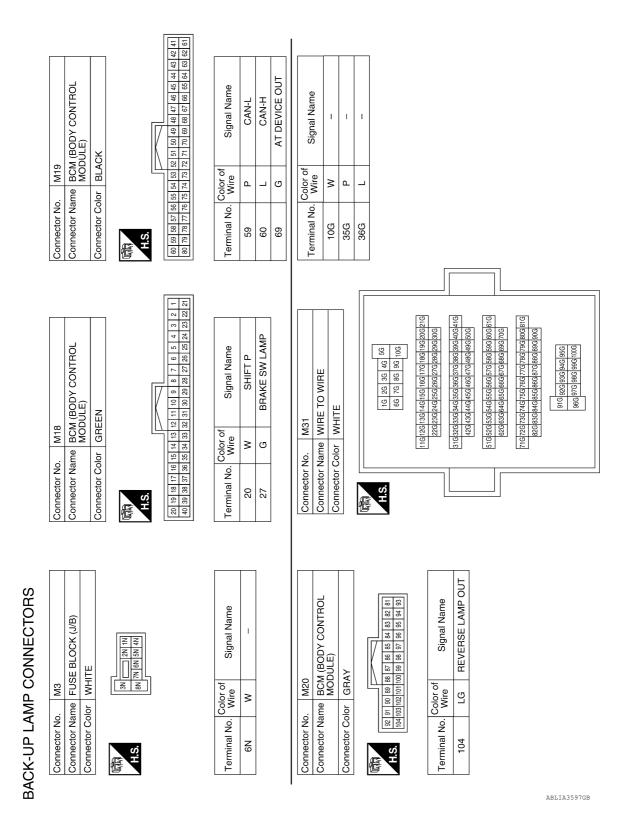
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Signal Name	ı
Color of Wire	LG
Terminal No.	24

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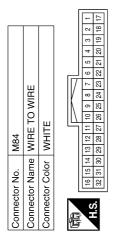
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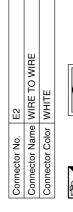
Terminal No.   Color of   Signal Name   T9A   LG   -	M68 FUSE BLOCK (J/B) BROWN Signal Nam FUSE BLOCK (J/B) BROWN SIGN SIGNAL NAM FINE SIGNAL NAM	Connector Name JOINT CONNECTOR-M18 Connector Color WHITE  H.S.  Terminal No. Wire Signal Name	_ a_	Connector No. M78 Connector Name CVT SHIFT SELECTOR Connector Color WHITE	H.S. 7 8 9 10 11 12	Terminal No. Wire Signal Name		- GR -	თ ≽
	WHITE	Wire LG P P		I <del></del>		Color of Wire	g		
	WHITE		V		H.S.	Termin	16		

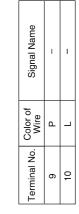
Revision: March 2012 **EXL-87** 2013 Infiniti JX

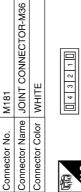


Signal Name	1	-
Color of Wire	L	Ь
Terminal No.	17	18









Connector No.

Signal Name	1	ı
Color of Wire	Μ	Μ
Terminal No.	1	2

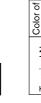


Connector Name BCM (BODY CONTROL MODULE)

M81

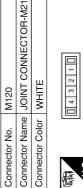
Connector No.

Connector Color WHITE



Signal Name	BAT BCM FUSE	GND2	BAT POWER F/L	GND1
Color of Wire	*	В	>	В
Terminal No.	131	134	139	143

0	BCM (BODY CONTROL MODULE)	4CK	118[115[114[113]12]111[110]109[108[107]108[105] 128[127[126]125[124]123[123[12][120]119[118[17]	Signal Name	SHIFT LOCK
. M80		lor BL/	151141131	Color of Wire	Ō
Connector No.	Connector Name	Connector Color BLACK	H.S. 1161	Terminal No.	108





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Connector Name STOP LAMP SWITCH

Connector Name FUSE BLOCK (J/B)

E28

Connector No.

Connector Color WHITE

E38

Connector No.

Connector Color WHITE

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4M 3M C 1M 1M 10M 10M 9M 8M 7M 6M 5M

	JOINT CONNECTOR-E01	TE		8 7 6 5 4 3 2 1	19 18 17 16 15 14 13 12	30 29 28 27 26 25 24 23		Signal Name	1	1	1	ı
. E44		lor WH		11 10 9	22 21 20	33 32 31		Color of Wire	۵	۵	g	g
Connector No.	Connector Name	Connector Color WHITE	E	S			_	Terminal No. Wire	12	13	19	20

Signal Name

Color of Wire

Terminal No.

Signal Name

Color of Wire

Terminal No.

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5M 7M

Signal Name	I	ı	1	I	
Color of Wire	Ь	۵	g	В	
Terminal No. Wire	12	13	19	20	

	Connector Name JOINT CONNECTOR-E15	*	3 2 1	Signal Name	ı	ı
E71	ne JOINT	or BLACI	0 2 4	Color of Wire	٦	
Connector No.	Connector Nan	Connector Color BLACK	是 H.S.	Terminal No.	-	2

	JOINT CONNECTOR-E14	~	3 2 1	Signal Name	ı	ı
E70	JOINT	r BLACK	9 2 4	Color of Wire	۵	Д
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	-	2

	CTOR-E12		2 2 2 1	Signal Name	1	ı		
E45	Connector Name JOINT CONNECTOR-E12	BLUE	12 11 10 9 8 7 6 5 4					
	ıme ,	lor	11 10	Color o Wire	_		_	
Connector No.	Connector Na	Connector Color BLUE	H.S.	Terminal No. Wire	_	3	7	•

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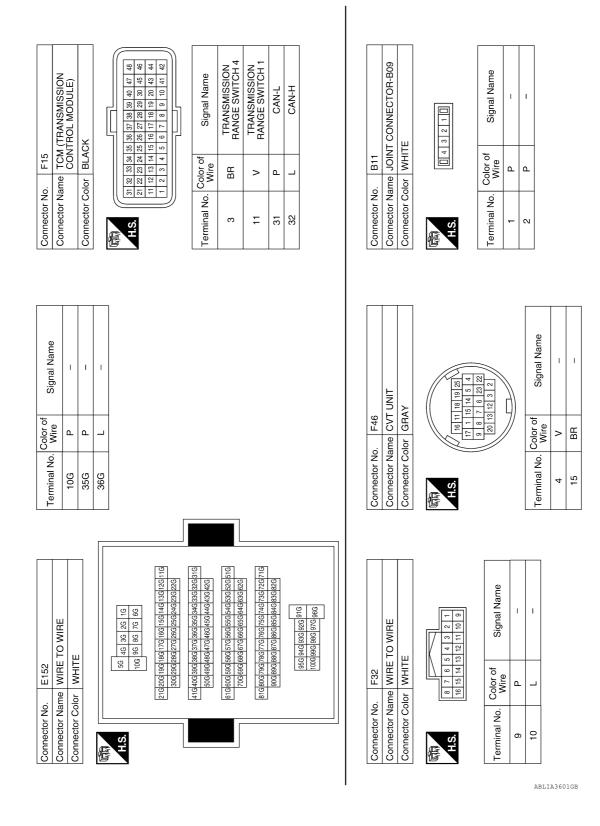
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ctor Name JOINT CONNECTOR-B10 ctor Color WHITE	Connector No.  Connector Name JONIT Connector Color WHITE  LAS.  Connector Color Of Alas Alas Alas Alas Alas Alas Alas Alas	mme JONIT Glor WHITE		Connect Connect Connect H.S.	Connector No. B17 Connector Name JOINT C Connector Color WHITE  H.S.  Color of Color		DR-B12
Signal Name	lerminal No. Wire	Wire	Signal Name -	l ermina 1	lerminal No. Wire	e Signal Name	ame
1	- 2	. 🗅	1	- 0	-	I	

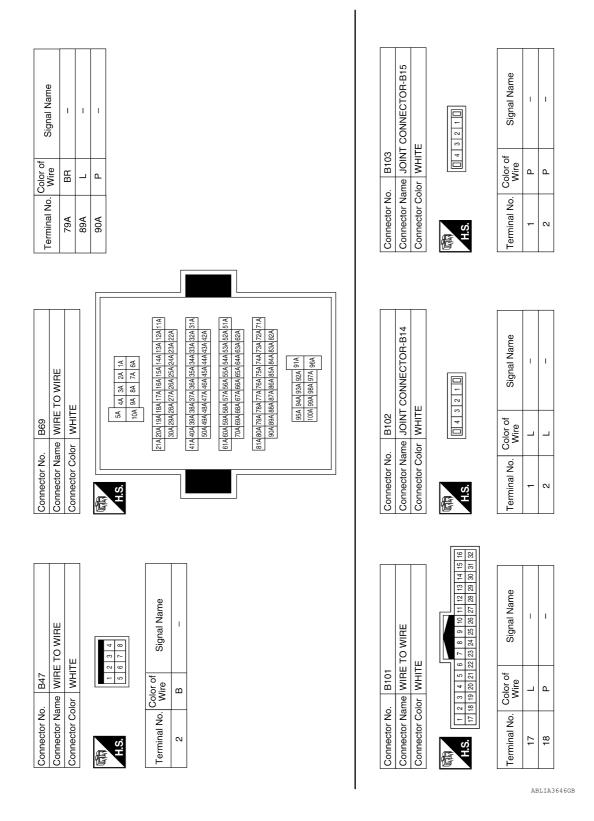
	WIRE TO WIRE	ITE	13 14 15 16 17 18 19 20 21 22 23 24	Signal Name	=
	me   WIF	lor   WHITE	2 3 4 5 14 15 16	Color of Wire	BR
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	22

Oppositor NI	D20	
COLLIECTOL NO.		
Connector Name WIRE TO WIRE	ame WIRE	TO WIRE
Connector Color WHITE	olor WHIT	ш
S)	15 14 13 12 11 10 31 30 29 28 27 26	16     15     14     13     12     11     10     9     8     7     6     5     4     3     2     1       32     31     30     29     28     27     26     25     24     23     22     21     20     19     18     17
Terminal No.	Color of Wire	Signal Name
18	٦	_
19	Ь	I

Connector No.	). B21	
Connector Name		JOINT CONNECTOR-B20
Connector Color WHITE	olor   WE	ІТЕ
H.S.	4	4 3 2 1 0
Terminal No.	Color of Wire	Signal Name
2	BR	I
,	1	

Signal Nam	I	1	
Color of Wire	BR	BR	
Terminal No.	2	3	

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D2(	ne WIF	or WF	4 🗴	Color of Wire	В	
Connector No. D502	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire	7	
1	RE TO WIRE	ITE	20 19 18 17 16 15 14 13	Signal Name	1	
D20	e WIF	or WH	11 10 9 8 23 22 21 20	Solor of Wire	LG	
Connector No. D501	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire	22	
			1 32			
	TO WIRE			Signal Name	I	ı
B124	me WIRE	or WHITE	2 3 4 5 6 18 19 20 21 2	Color of Wire	7	۵
Connector No. B124	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No.   Color of   Wire	18	19

Connector No. D550	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. (4 5 6	Terminal No. Wire Signal Name
0	TO WIRE		4 3 2 1 1 10 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0	Signal Name

В

21	WIRE TO WIRE	ITE	5 4 3 2 1 1 10 9 8 1 1 1 10 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Nam	-
D507	ne WIF	or WH	8 7 6 15 14	Color of Wire	ГG
Connector No.	Connector Name	Connector Color WHITE	崎南 H.S.	Terminal No.	8
			_ <del></del>		

Connector No.	). D505	15
Connector Name WIRE TO WIRE	me WIF	RE TO WIRE
Connector Color	olor WHITE	ITE
(南) H.S.	<u> </u>	<u>\( \tilde{\alpha}\) \( \tilde{\alpha}\) \( \tilde{\alpha}\)</u>
Terminal No.	Color of Wire	Signal Name
-	В	1

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Connector No.	). D564	4
Connector Name	me BAC	BACK-UP LAMP LH
Connector Color	olor WHITE	ITE
原 H.S.		
Terminal No.	Color of Wire	Signal Name
1	ГG	I
2	В	I

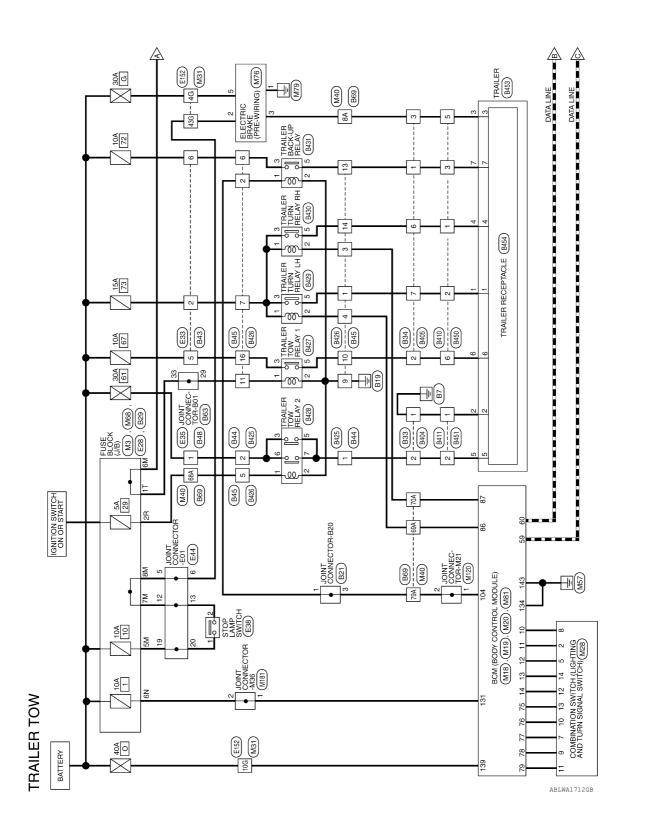
Connector No.	. D563	3
Connector Name		BACK-UP LAMP RH
Connector Color	lor WHITE	TE
H.S.		[2]
Terminal No.	Color of Wire	Signal Name
-	LG	ı
2	В	ı

5	WIRE TO WIRE	ITE	2 3 4 5 6 7 8 10 11 12 13 14 15 16	Signal Name	-
. D552		lor WH	9 10 1	Color of Wire	LG
Connector No.	Connector Name	Connector Color WHITE	原 H.S.	Terminal No.	8

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## TRAILER TOW

Wiring Diagram



Revision: March 2012 **EXL-95** 2013 Infiniti JX

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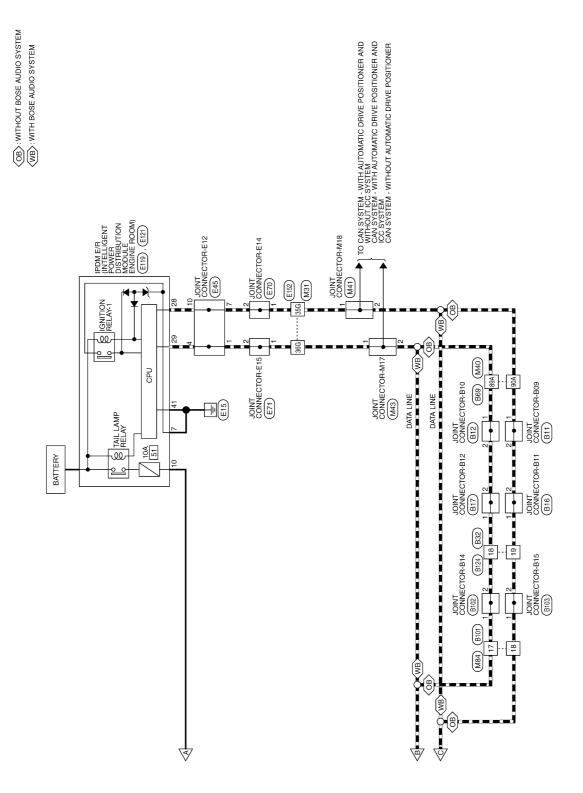
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Connector Name BCM (BODY CONTROL MODULE)

M19

Connector No.

M18

BLACK

Connector Color

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# TRAILER TOW CONNECTORS







Signal Name	1
Color of	<b>X</b>
Terminal No.	N9

г	_	_	1									
ı	41	61										
ı	42	62										
	43	63										
ı	4	64					5	4	က	N	-	
	45	65		ه ا			15	15	U	15	151	
	46	99		Signal Name	با	I	0	0	0	0	0	
	47	67		ΙŽ	CAN-L	CAN-H	ΙŠ	ا ق	NS.	8	ا ۾ ا	
	84	68		<u> </u>	ပြ	CA	<del> </del>	S	3 8	<u></u>		
/	49	69		l iĝ			⊌	⊌	ME	⊌	≝∣	
	20	72 71 70		0)			COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1	
	21	71										
١	52	72		L								
ī	53	73		Color of Wire								
	52	74		color o Wire	□	7	BG	₽.	Д	∣≥		
	22	76 75 74 73		ŏ^								
	26	9/										
	22	77		Z								
	28	78		Terminal No.	29	09	75	9/	77	78	29	
	59	79		] [	~′		` `	`	-	` `	`	
	09	80		<u> </u>								
L	8	8		<u>e</u>								

**TRAILER TOW** 

Signal Name	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1
Color of Wire	Ъ	Ь	>	M	Ь
Terminal No. Wire	10	11	12	13	14

Signal Name	COMBI SW IN	COMBI SW IN	COMBI SW IN	COMBI SW IN 2	COMBI SW IN 1
Color of Wire	Ъ	Ь	۸	M	Ь
Terminal No. Wire	10	11	12	13	14

Signal Name	OUTPUT 4	OUTPUT 3	INPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
Color of Wire	Ь	>	۵	۵	>	Д	>	۵	BG	Μ
Terminal No.	2	5	7	80	6	10	1	12	13	14

No. M28	Connector Name COMBINATION SWITCH	Connector Color WHITE			1 2 3 4 5 6	1
Connector No.	Connector	Connector	E	H.S.		

Connector Connec	H.S.
Conne	H.S.

Connector No.	No.	M20	0								
Connector Name   BCM (BODY CONTROL   MODULE)	Name	BC	∑ ∑	SE SE	Ö	ν	Ö	느	2	그	
Connector Color GRAY	Color	GH	ξ								
							١.				
· F				ĺ	V	T					
Ě	92 91 90 89 88 87 86 85 84	88	88	87	98	83	8	83	82	18	
į	104 103 102 101 100 99 98 97 96 95 94	02 101	100	66	98	97	96	35		93	
_										]	
			L.								_

	L	
	Ī	
26	92 91 90 89	88 87 86 85 84 83 82 81
104	104 103 102 101 100 99	100 99 98 97 96 95 94 93
J		
Terminal No. Wire	Color of Wire	Signal Name
98	В	TRAILER FLASHER RL
87	۵	TRAILER FLASHER RR
104	ГG	REVERSE LAMP OUT

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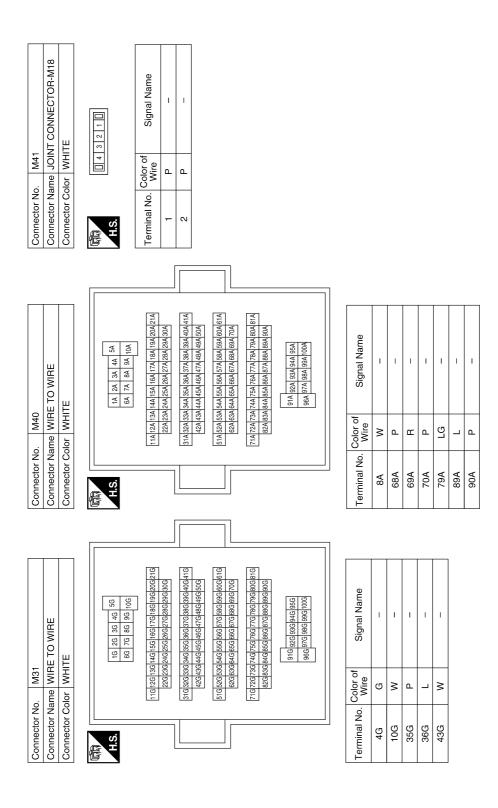
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Connector No.	). M76	3
Connector Na	ame ELE (PR	Connector Name   ELECTRIC BRAKE   (PRE-WIRING)
Connector Color WHITE	olor WH	ITE
(中) H.S.	1 2	3 4 6
Terminal No.	Color of Wire	Signal Name
-	В	GND
2	×	STOP
3	Α	BRAKE
2	9	B+

	ELECTRIC BRAKE (PRE-WIRING)	ITE	3 4 6	Signal Nam	<b>GN</b> 5	STOP	BRAKE	B+	
. M76		lor WHITE	2 -	Color of Wire	В	Μ	8	В	
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1	2	3	2	
			. <u></u>						

Connector No.	. M68	
Connector Na	ıme FUS	Connector Name FUSE BLOCK (J/B)
Connector Color BROWN	lor BRC	NWC
H.S.	7R (	77 (84) 571 (44) (45) (57) (58) (58) (58) (58) (58) (58) (58) (58
Terminal No.   Color of   Wire	Color of Wire	Signal Name

LG

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Connector No.	o. M43	
Connector Na	ame JOII	Connector Name JOINT CONNECTOR-M17
Connector Color WHITE	olor WH	TE
H.S.	4	4 3 2 1
Terminal No. Wire	Color of Wire	Signal Name
1	٦	1
0	-	ı

0;	Connector Name JOINT CONNECTOR-M21	型	4 3 2 1 0	Signal Name	ı	ı
. M120	me JOII	lor WH	4	Color of Wire	LG	ΓG
Connector No.	Connector Na	Connector Color WHITE	南 H.S.	Terminal No. Wire	-	2

nector No. M84	Connector Name WIRE TO WIRE	Connector Color WHITE	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1	ninal No. Color of Signal Name Wire	17 L –	18 P –
Connector No.	Connector	Connector	H.S.	Terminal No.	17	18

	Connector Color WHITE	Connector Name   BCM (BODY CONTROL   MODULE)	Connector No. M81
Terminal No. Color of Wire Signal Name	137  142   141   142   141   143   142   141   143   142   141   143   142   141   143   142   141   143   142   141   143   142   141   143   142   141   143   142   143		🌦
No. Color of Signal Name		140	Name   BCM (BODY CONT   MODULE)   STOOL   WHITE
		or Color   WHITE	or Name BCM (BODY CONTF MODULE) or Color WHITE

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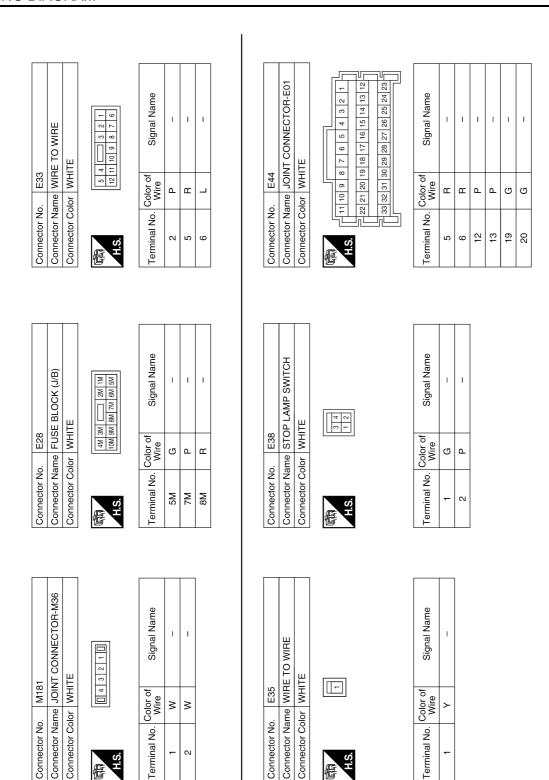
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**TRAILER TOW** 

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Connector No.	. E71	
Connector Na	me JOII	Connector Name JOINT CONNECTOR-E15
Connector Color BLACK	lor BLA	CK
E.S.	9	8 8 2 1
Terminal No. Color of Wire	Color of Wire	Signal Name
1	7	ı
c	_	

Connector No.	). E70	
Connector Na	ame JOII	Connector Name JOINT CONNECTOR-E14
Connector Color BLACK	olor BLA	CK
H.S.	9	5 4 3 2 1
Terminal No.	Color of Wire	Signal Name
1	d	1
2	d	1

							,
Connector No. E45 Connector Name JOINT CONNECTOR-E12 Connector Color BLUE	8 7 6 5 4 3 2 1	Signal Name	_	_	-	-	
me JOINT	12 11 10 9	Color of Wire	7	_	۵	۵	
Connector No. Connector Name Connector Color	H.S.	Terminal No. Wire	1	7	7	10	

O	Connector No.	E121
_ O	onnector Name	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOP
O	Connector Color WHITE	WHITE

ı	ਲ	20					
ı	33	49			Г		
ı	32	48					
ı	31	47					_
ı	30	46		e			7
	29 30 31 32 33 34	45		Signal Name	<u>-</u> -	ĮΨ	( IVINOIS/ CIND
	28	44		🖆	CAN-L	CAN-H	5
	27	43		🖺	3	δ	
	56	42		iši			Į
	25	41					Ċ
1	19 20 21 22 23 24 25 26 27 28	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50					
ı	23	39		<u> </u>	$\vdash$		
ı	22	38		5 e		١.	_
ı	21	37		∺ ≅	-	-	α
ı	20	36		0			
ı	19	35		9			
	0	į	J	erminal No. Color of Wire	28	59	11

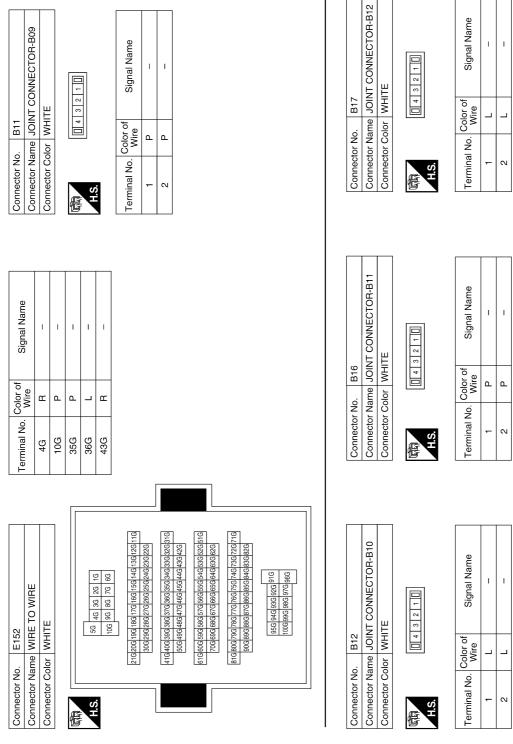
Signal Name	GND (POWER)	TAIL LH	
Color of Wire	В	Т	
nal No.	7	01	

TAIL LH	Г	10
GND (POWE	В	7
Signal Nam	Color of Wire	Terminal No. Color of Wire

Signal Name	CAN-L	CAN-H	GND (SIGNAL)	
Color of Wire	۵	Γ	В	
rminal No.	28	29	41	

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			17 1			
	E TO WIRE	TE	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1 20 19 18 17 2 2 1 20 19 18 17 2 1	Signal Name	I	ı
B32	me WIR	or WHI	16 15 14 13 12 11 10 9 32 31 30 29 28 27 26 25	Color of Wire	_	Д
Connector No. B32	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. 16 15 32 31	Terminal No. Wire	18	19
				(D)		
29	Connector Name FUSE BLOCK (J/B)	ИНТЕ	27	of Signal Name	ı	
o. Bž	ame Fl	olor	[2]	Color	≥	
Connector No. B29	Connector N	Connector Color WHITE	用.S.	Terminal No. Wire	<b>+</b>	
	Connector Name JOINT CONNECTOR-B20	ITE	3 2 1	Signal Name	ı	1
. B21	me JOII	or WH	4	Color of Wire	BR	BR
Connector No. B21	Connector Nai	Connector Color WHITE	H.S.	Terminal No. Wire	-	3

Connector No. B33		Connector No.	B34	 Connector No.	B43	
Connector Name WIRE TO WIRE	ro wire	Connector Nan	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	ne WIRE 1	O WIRE
Connector Color BLACK		Connector Color WHITE	or WHITE	Connector Color WHITE	or WHITE	
T Z H.S.		₽ H.S.	1 2 8 7 8	H.S.	1 2 3 6 7 8	9 10 11 12
			-		-	
Terminal No.   Color of	Signal Name	Terminal No. Wire	Signal Name Wire	Terminal No. Color of Wire	Color of Wire	Signal Name
1 B	1	-	\ \	2	۵	1
2 W	1	2	M	5	æ	1
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		9	ا ق			
		7	M			

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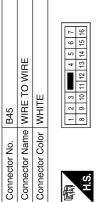
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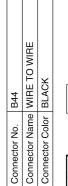
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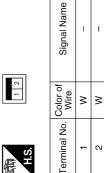
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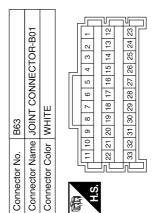
Signal Name	ı	ı	I	1	ı	I	1	ı	ı	1	ı	ı	1
Color of Wire	>	BR	ŋ	Μ	Ь	٦	Ь	GR	>	В	<b>\</b>	g	В
Terminal No. Wire	-	2	3	4	2	9	2	6	10	11	13	14	16









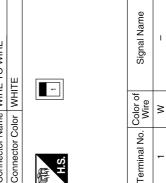


Signal Name

Color of Wire ш ≥

Terminal No. 53 33

	IRE		
B48	WIRE TO W	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	



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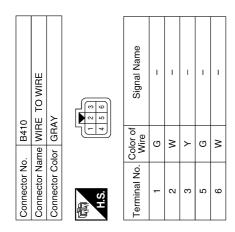
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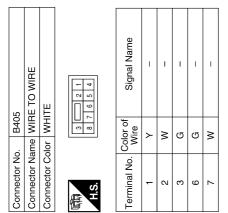
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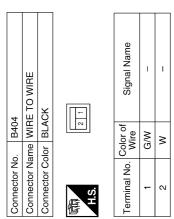
Connector Name   WIRE TO WIRE				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32			Terminal No. Color of Signal Name  17 L –  18 P –		Connector No. B124 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No. Color of Signal Name		19 P
Signal Name	I	ı	ı	ı	1	I	I			Connector No. B103  Connector Name JOINT CONNECTOR-B15  Connector Color WHITE	3 2 1	Signal Name	1	1
Color of Wire	GR/L	۵	8	5	BB	_	۵			o. B103 ame JOINT olor WHIT	4	Color of Wire	۵	۵.
Terminal No.	8A	68A	69A	70A	79A	89A	90A			Connector No. B103 Connector Name JOINT	H.S.	Terminal No.	-	Ø
Connector No. B69 Connector Name WIRE TO WIRE	Connector Color WHITE			5A 44 24 24 24	104 94 84		21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A	3004 2504 2604 274 2604 2504 2404 2504 2404 2404 4004 3304 3204 314    5004 4904 4904 4504 4504 4404 4404 4404	ΙT	Connector Name JOINT CONNECTOR-B14 Connector Color WHITE	H.S.	Terminal No. Color of Signal Name	-	- L

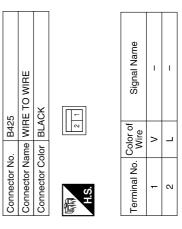
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Revision: March 2012 **EXL-105** 2013 Infiniti JX









Connector No.	). B411	
Connector Name   WIRE TO WIRE	ıme WIF	E TO WIRE
Connector Color BLACK	olor BLA	CK
নি H.S.		
Terminal No. Wire	Color of Wire	Signal Name
1	В	-
٥	>	ı

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Connector No.	). B427	27
Connector Na	ame TR.	Connector Name TRAILER TOW RELAY 1
Connector Color	olor BLUE	UE
		[w
H.S.		
Terminal No. Wire	Color of Wire	Signal Name
-	G	ı
2	В	ı
3	æ	ı
2	>	ı

Signal Name	I	I	I	ı	I	ı	ı	I	ı	ı	I	ı	1
Color of Wire	>	ŋ	ŋ	g	8	<b>\</b>	В	В	Μ	В	LG	M	В
Terminal No.	-	2	8	4	2	9	7	6	10	11	13	14	16

Connector No.	B426
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE
SH SH	7 6 5 4

	r	
Connector No.	). B430	0
ž	Connector Name TRA	TRAILER TURN RELAY RH
ပြ	Connector Color BLUE	JE
Terminal No.	Color of Wire	Signal Name
	ŋ	1
	ŋ	ı
	ŋ	ı
	>	ı

6	Connector Name TRAILER TURN RELAY LH	ш		Signal Name	1	ı	1	1
. B429	me TRA	lor BLUE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Color of Wire	G	ŋ	В	>
Connector No.	Connector Na	Connector Color	明.S.	Terminal No.	-	Ŋ	3	5

Connector No.	). B428	8
Connector Name		TRAILER TOW RELAY 2
Connector Color		BROWN
	[ 	[
佢		
S. S.	. ω	
Terminal No. Wire	Color of Wire	Signal Name
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2	В	ı
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5	^	I
9	٦	1
7	>	I

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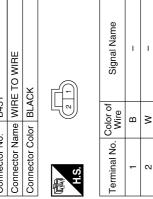
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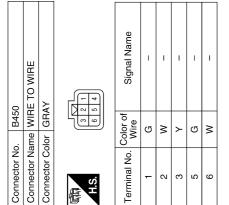
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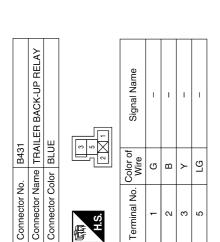
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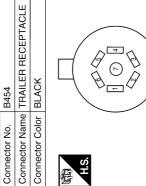
**TRAILER TOW** 

Connector No.	B451
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color BLACK	BLACK
H.S.	









	Signal Name	STOP/TURN LH	GROUND	ELECTRIC BRAKE	STOP/TURN RH	BATTERY	RUNNING LAMPS	BACK-UP LAMPS
	Color of Wire	ı	ı	ı	ı	ı	ı	ı
是 H.S.	Terminal No.	-	2	ဇ	4	ည	9	7



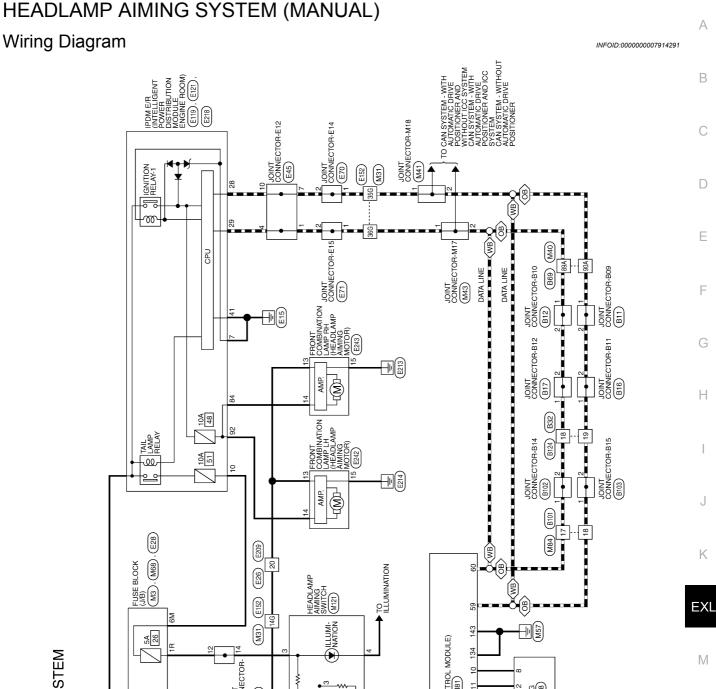
Signal Name	1	1	ı	1	1	I	1
Color of Wire	Μ	В	ŋ	В	Μ	Α	Υ
Terminal No.	1	2	3	4	5	9	7

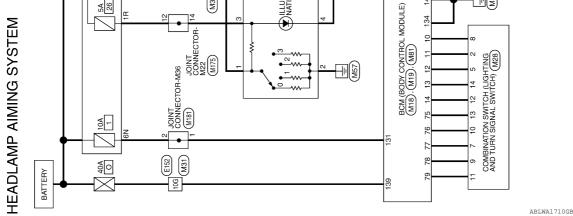
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# **HEADLAMP AIMING SYSTEM (MANUAL)**





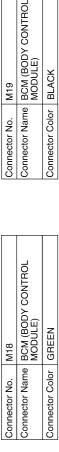
# HEADLAMP AIMING SYSTEM CONNECTORS

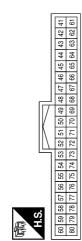
Connector Name FUSE BLOCK (J/B)

Connector No.

Connector Color WHITE

7N 6N 5N 4N





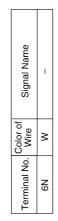
H.S.

BLACK

Signal Name	CAN-L	CAN-H	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Color of Wire	۵	٦	BG	Ь	Д	8	M
Terminal No.	69	09	75	9/	77	78	79



Signal Name	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1
Color of Wire	۵	۵	۸	>	Ь
Terminal No. Wire	10	11	12	13	14



Signal Name	OUTPUT 4	OUTPUT 3	INPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
Color of Wire	Ь	۸	Ь	Ь	W	Ь	M	Ь	BG	W
Terminal No.	2	5	7	œ	6	10	=	12	13	14

Connector No. M28 Connector Name COMBINATION SWITCH Connector Color WHITE		205	M28 COM		≧    / [				MITCH _
S	-	7	က			4	5	9	
	7	8	6	9 10 11 12 13 14	11	12	13	14	
		ı	ı	ı	l	ı	ı	l	

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Connector No. Connector Color Connector Color H.S.	10. M31  Solor WHITE  116 26 36 46  226 226 246  316 396 346	M31  Ne WIRE TO WIRE  Or WHITE  16 26 36 46 56 66 76 86 96 106 67 76 186 196 206 216 226 236 246 256 256 256 256 256 256 256 256 256 25	Connector No. Connector Color Connector Color H.S.	No. M40  Name WIRE T  Color WHITE  That is a law law law law law law law law law l	M40   WIRE TO WIRE	M41   Connector Name   JOINT CONNECTOR-M18   Connector Color   WHITE   H.S.	DR-M18
	\$1682653 \$1682653 716726736	423  443  444  455  456  456  475  480  490  500		42A 433 62A 63 71A 72A 73 82A 83	514 S2A (33A) 4444 453A (46A) 45A 48B 48B 50A 514 S2A (53A) 54A (55A) 56B (57A) 58A 55B 60A 61A 52A (53A) 64A (55A) 66B (57A) 68A (59A) 70A 71A 72A 72A 72A 72A 77A 77B 77B 77B 77B 77B 77B 77B 77B 77		
	900000	98G 97G 98G 99G 90G		30 20 20 20 20 20 20 20 20 20 20 20 20 20			
Terminal No.	. Wire	Signal Name	Terminal No. 89A	lo. Wire	Signal Name		
14G	>	ı	90A	۵	ı		
35G	Ъ	-					
36G	7	ı					

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Connector No.	. M81	
Connector Name		BCM (BODY CONTROL MODULE)
Connector Color WHITE	lor WH	ITE
原列 H.S.	143 142 1	137   742   741   740   738   738
Terminal No.	Color of Wire	Signal Name
131	×	BAT BCM FUSE
134	В	GND 2
139	W	BAT POWER F/L
143	В	GND 1

	BCM (BODY CONTROL MODULE)	ITE	137   136   136   136   138	Signal Name	BAT BCM FUSE	GND 2	BAT POWER F/L	GND 1	
. M81		lor WH	143 142 1	Color of Wire	Μ	В	Μ	В	
Connector No.	Connector Name	Connector Color WHITE	明 H.S.	Terminal No.	131	134	139	143	

2.	JOINT CONNECTOR-M22	TE TI	22 21 20 19 18 17 16 15 14 13 12 13 33 32 31 30 29 28 27 26 25 24 23	Signal Name	I	ı
M175		or WHITE	22 21 20 19 18 17 6 33 32 31 30 29 28 2	Color of Wire	н	В
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	12	14
•	•	•				

old sets of	Г	
Cormector No.	MDS	_
Connector Na	me FU	Connector Name   FUSE BLOCK (J/B)
Connector Color		BROWN
原 H.S.	7R   6R   5R   4R   1	7A 6A 5R 4A (
Terminal No.	Color of Wire	Signal Name
1R	Œ	1

Connector Name JOINT CONNECTOR-M17
Connector Color WHITE

Connector No.

Signal Name	1	
Color of Wire	œ	
erminal No.	1H	

Signal Nam	1	
Color of Wire	œ	
erminal No.	1H	

Signal Name	1	1
Color of Wire	L	_
Ferminal No.	1	2

M121	Connector Name HEADLAMP AIMING SWITCH	WHITE	2 1 3 4
Connector No.	Connector Nam	Connector Color WHITE	斯 H.S.

Connector No.	Ž	0.		M84	34												
Connector Name WIRE TO WIRE	Ž	am	<u>o</u>	∣≥	<u> </u>	-	0	∣≶	22	l							
Connector Color WHITE	Q	응		≥	∄	II											
E							$  \   \   \  $		1 IV	l 17	_				1		
	16	16 15 14 13 12 11 10 9 8	4	13	12	1 =	9	6	8	7	9	5 4	4	8	2	-	
6	었	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	30	53	28	27	56	25	24	23	ผ	21	8	9	8	1	
																ı	

Signal Name	ı	-	ı	I
Color of Wire	>	В	В	В
Terminal No.	-	2	3	4

Signal Name	ı	1	
Color of Wire	٦	Ь	
Terminal No.	17	18	

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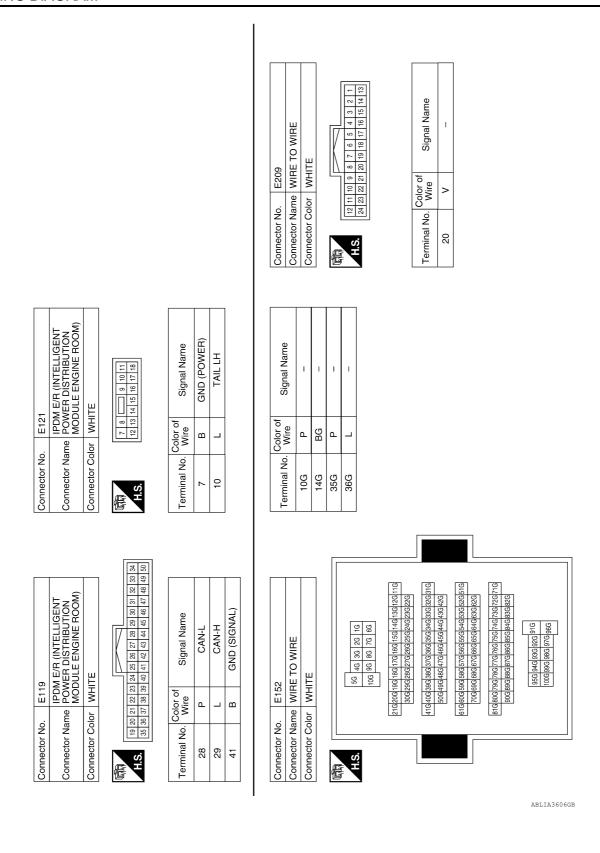
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Connector No. E28 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	「	Terminal No. Wire  6M L	Connector No. E71 Connector Name JOINT CONNECTOR-E15 Connector Color BLACK	H.S. (6 5 4 3 2 1)	Terminal No. Wire Signal Name		
Connector No. E26 Connector Name WIRE TO WIRE Connector Color WHITE	H.S. 12   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24	Terminal No. Wire Signal Name	Connector No. E70 Connector Name JOINT CONNECTOR-E14 Connector Color BLACK	H.S. 6 5 4 3 2 1	Terminal No. Wire Signal Name	В В	
Connector No. M181 Connector Name JOINT CONNECTOR-M36 Connector Color WHITE	H.S.	Terminal No. Color of Signal Name  1 W	Connector No. E45 Connector Name JOINT CONNECTOR-E12 Connector Color BLUE	H.S. [12 11 10 9 8 7 6 5 4 3 2 1]	Terminal No. Wire Signal Name	4 L 7	10 В

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Revision: March 2012 **EXL-113** 2013 Infiniti JX



Connector No.	E243
Connector Name	Connector Name FRONT COMBINATION LAMP RH
Connector Color GRAY	GRAY

Connector Name FRONT COMBINATION LAMP LH

E242

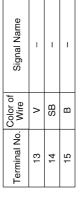
Connector No.

GRAY

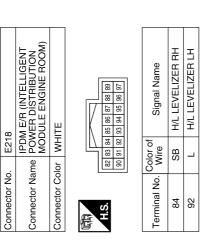
Connector Color

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Signal Name	-	I	ı
Color of Wire	^	SB	В
Color of Wire	13	14	15



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	Signal Name	1	_	I
	Color of Wire	^	٦	В
	Terminal No. Wire	13	14	15



Connector No.		B16
Connector Na	lme J	Connector Name JOINT CONNECTOR-B11
Connector Color WHITE	lor V	VHITE
(京) H.S.		4 3 2 1 0
Terminal No.	Color of Wire	of Signal Name
-	۵	1
2	凸	ı

Connector No.	). B12	
Connector Na	Ime JOI	Connector Name JOINT CONNECTOR-B10
Connector Color WHITE	olor WH	ITE
(南) H.S.	4	
Terminal No.	Color of Wire	Signal Name
1	٦	_
2	٦	-

Connector No.	. B11	
Connector Na	Ime JOII	Connector Name JOINT CONNECTOR-B09
Connector Color WHITE	lor WH	ПЕ
南 H.S.	4	3 2 1 0
Terminal No.	Color of Wire	Signal Name
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2	Ь	ı

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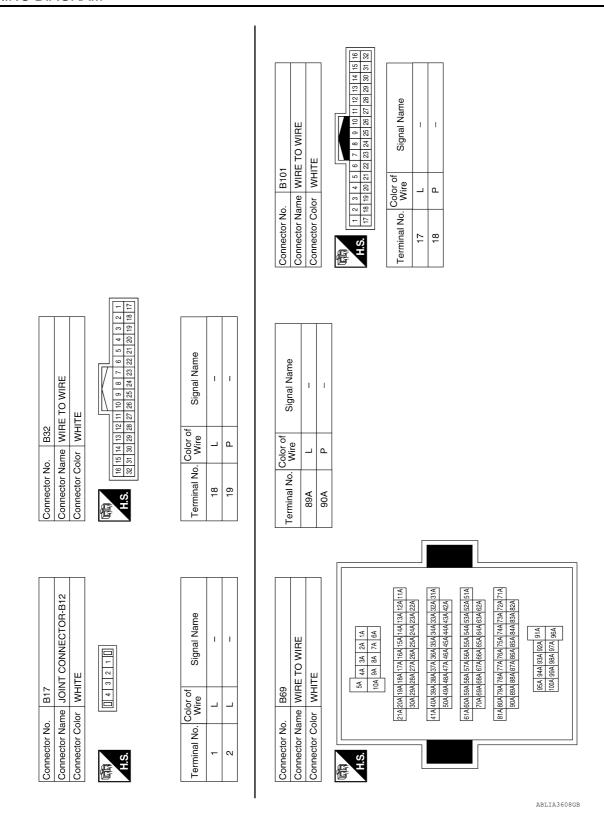
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Revision: March 2012



**EXL-116** 

2013 Infiniti JX

## **HEADLAMP AIMING SYSTEM (MANUAL)**

[XENON TYPE] < WIRING DIAGRAM >

Connector No.	. B124	4										
Connector Name WIRE TO WIRE	me WIF	ŒŢ.	0	H	ш							
Connector Color WHITE	lor WH	빝										
										]		1
-	2 3 4 5	9	7 8		9 10 11 12 13 14 15 16	Ξ	42	13	4	5	16	
	17 18 19 20 21 22 23	22	3 24	24 25	26	27	28 29	29	30 31 32	31	32	
												1
Terminal No.	Color of Wire		Ši	Signal Name	Ž	ᇤ	o O					
18	_				h							
19	۵				lı							

Connector No.	B103	33
Connector Name	ume JO	JOINT CONNECTOR-B15
Connector Color		WHITE
崎 H.S.	4	3 2 1 0
Terminal No.	Color of Wire	Signal Name
-	۵	ı
٥	۵	ı

Connector No.	). B102	2
Connector Name	IMe JOI	JOINT CONNECTOR-B14
Connector Color WHITE	olor WH	ПЕ
原动 H.S.	4	3 2 1 1
Terminal No. Wire	Color of Wire	Signal Name
-	٦	ı
2	7	-

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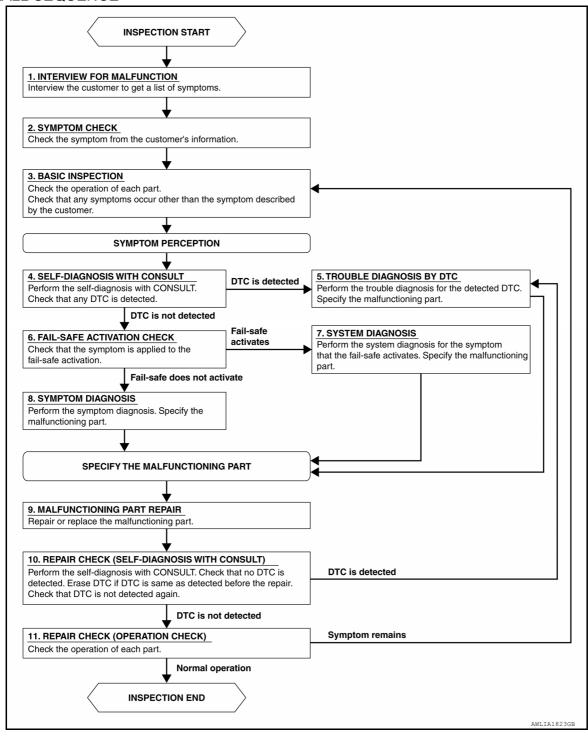
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# **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

#### **OVERALL SEQUENCE**



## **DIAGNOSIS AND REPAIR WORKFLOW**

DETAILED FLOW
1.INTERVIEW FOR MALFUNCTION
Find out what the customer's concerns are.
>> GO TO 2.
2.symptom check
Verify the symptom from the customer's information.
>> GO TO 3.
3.BASIC INSPECTION
Check the operation of each part. Check any concerns that occur other than those mentioned in the customer interview.
>> GO TO 4.
4.SELF-DIAGNOSIS WITH CONSULT
Perform the self-diagnosis with CONSULT. 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
Determine if the customer's concern is related to 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 in which the fail-safe activates. Specify the malfunctioning part.
>> GO TO 9.
8.SYMPTOM DIAGNOSIS
Perform the symptom diagnosis. Refer to <u>EXL-146</u> . "Symptom Table".
>> GO TO 9.
9. MALFUNCTION PART REPAIR
Repair or replace the malfunctioning part.
>> GO TO 10.
10.REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)

Revision: March 2012

**EXL-119** 2013 Infiniti JX

## **DIAGNOSIS AND REPAIR WORKFLOW**

< BASIC INSPECTION > [XENON TYPE]

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.

## POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

## DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT **BCM (BODY CONTROL MODULE)** 

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000008282679

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Regarding Wiring Diagram information, refer to BCS-52, "Wiring Diagram".

## 1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
139	Fusible link battery power	O (40A)
131	BCM battery fuse	1 (10A)

#### Is the fuse or fusible link blown?

>> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

## $oldsymbol{2}$ . CHECK POWER SUPPLY CIRCUIT

Disconnect BCM connector M81.

Check voltage between BCM connector M81 terminals 131, 139 and ground.

В	CM	Ground	Voltage (Approx.)	
Connector	Terminal	Giodila	(Approx.)	
M81	131	Rattery voltage		
	139	_	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

## 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M81 terminals 134, 143 and ground.

В	CM	Ground	Continuity	
Connector	Terminal	Ground		
M81	134		Yes	
	143	_	Tes	

#### Is the inspection result normal?

YES >> Inspection End.

>> Repair or replace harness or connectors.

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

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM): Diagnosis Procedure INFOID:0000000008282682

Regarding Wiring Diagram information, refer to PCS-21, "Wiring Diagram".

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2013 Infiniti JX

## POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

# 1. CHECK FUSIBLE LINKS

Check that the following fusible links are not blown.

Terminal No.	Signal name	Fusible link No.
1	Fusible link main	E (80A)
2	Fusible link IPDM E/R	A (250A), C (80A)
3	Fusible link ignition switch	A (250A), B (100A), K (40A)

#### Is the fusible link blown?

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

NO >> GO TO 2

# 2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect IPDM E/R connectors E118 and E120.
- 2. Check voltage between IPDM E/R connectors and ground.

IPDI	M E/R	Ground	Voltage (Approx.)	
Connector	Terminal	Ground	(Approx.)	
E110	1			
E118	2	_	Battery voltage	
E120	3			

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

## 3. CHECK GROUND CIRCUIT

- Disconnect IPDM E/R connectors E119 and E121.
- 2. Check continuity between IPDM E/R connectors and ground.

IPDM E	E/R	Ground	Continuity	
Connector	Terminal	Ground	Continuity	
E121			Yes	
E119	41	_	163	

## Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

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INFOID:0000000008297299

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## **HEADLAMP (HI) CIRCUIT**

Description INFOID:0000000008297297

The IPDM E/R (intelligent power distribution module engine room) controls the headlamp high relay based on inputs from the BCM over the CAN communication lines. When the headlamp high relay is energized, power flows through fuses 34 and 35, located in the IPDM E/R. Power then flows to the front combination lamps to the headlamp high beam.

## Component Function Check

# 1. CHECK HEADLAMP (HI) OPERATION

#### **NWITHOUT CONSULT**

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

#### (P)WITH CONSULT

- 1. Select EXTERNAL LAMP of IPDM E/R active test item.
- While operating the test items, check that the headlamp switches to the high beam.

НΙ : Headlamp switches to the high beam.

**OFF** : Headlamp OFF

#### Does the headlamp switch to the high beam?

YES >> Headlamp (HI) circuit is normal.

>> Refer to EXL-123, "Diagnosis Procedure". NO

## Diagnosis Procedure

Regarding Wiring Diagram - Refer to EXL-22, "Wiring Diagram".

## 1.CHECK HEADLAMP (HI) FUSES

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

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	35	10A
Headlamp HI (RH)	IPDM E/R	34	10A

#### Is the fuse open?

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

NO >> GO TO 2.

## f 2.CHECK HEADLAMP (HI) OUTPUT VOLTAGE

#### **®CONSULT ACTIVE TEST**

- Turn the ignition switch OFF.
- Disconnect the front combination lamp harness connector E331 or E327.
- Turn the ignition switch ON. 3.
- Select EXTERNAL LAMP of IPDM E/R active test item. 4.
- With EXTERNAL LAMP ON, check the voltage between the combination lamp harness connector and ground.

	(+)		( )	Voltage
	Connector	Terminal	(-)	vollage
RH	E331	3	Ground	Battery voltage
LH	E327	3	Ground	Dattery Voltage

**EXL-123** Revision: March 2012 2013 Infiniti JX **EXL** 

## **HEADLAMP (HI) CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

#### Is battery voltage present?

YES >> GO TO 4. NO >> GO TO 3.

# 3.CHECK HEADLAMP (HI) CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R harness connector E217.
- 3. Check continuity between the IPDM E/R harness connector E217 and the front combination lamp harness connector.

IPDM E/R			Front combination la	mp	Continuity
Con	nector	Terminal	Connector	Terminal	Continuity
RH	E200	80	E331	3	Yes
LH		81	E327	3	165

#### **Does continuity exist?**

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair the harnesses or connectors.

# 4. CHECK FRONT COMBINATION LAMP (HI) GROUND CIRCUIT

Check continuity between the front combination lamp harness connector terminal 4 and ground.

	Connector	Terminal	_	Continuity
RH	E331	4	Ground	Yes
LH	E327	7	Ground	163

#### Does continuity exist?

YES >> Replace the headlamp bulb.

NO >> Repair or replace the harness or connector.

## **HEADLAMP (LO) CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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## **HEADLAMP (LO) CIRCUIT**

Description INFOID:0000000008297296

The IPDM E/R (intelligent power distribution module engine room) controls the headlamp low relay based on inputs from the BCM over the CAN communication lines. When the headlamp low relay is energized, power flows through fuses 36 and 37, located in the IPDM E/R. Power then flows to the front combination lamps to the headlamp low beam.

## Component Function Check

INFOID:0000000008297300

## 1. CHECK HEADLAMP (LO) OPERATION

#### **NWITHOUT CONSULT**

Start IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".

Check that the headlamp is turned ON.

#### NOTE:

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

#### (P)CONSULT

Select EXTERNAL LAMP of IPDM E/R active test item.

While operating the test item, check that the headlamp is turned ON.

: Headlamp ON LO OFF : Headlamp OFF

#### Is the headlamp turned ON?

YES >> Headlamp (LO) is normal.

NO >> Refer to EXL-125, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000008297301

Regarding Wiring Diagram information - Refer to EXL-22, "Wiring Diagram".

## 1.CHECK HEADLAMP (LO) FUSES

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

Unit	Location	Fuse No.	Capacity
Headlamp LO (LH)	IPDM E/R	37	15A
Headlamp LO (RH)	IPDM E/R	36	15A

#### Is the fuse open?

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

NO >> GO TO 2.

# 2.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

#### (P)CONSULT

- Turn the ignition switch OFF. 1.
- Disconnect the front combination lamp harness connector E332 or E328.
- Turn the ignition switch ON.
- Select EXTERNAL LAMP of IPDM E/R active test item. 4.
- With EXTERNAL LAMP ON, check the voltage between the front combination lamp harness connector E332 or E328 terminal 1 and ground.

(+)		(_)	Voltage
Connector Terminal		(-)	voltage

**EXL-125** Revision: March 2012 2013 Infiniti JX **EXL** 

## **HEADLAMP (LO) CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

RH	E332	1	Ground	Battery voltage
LH	E328	'	Oround	Dattery voltage

#### Is battery voltage present?

YES >> GO TO 4. NO >> GO TO 3.

3.CHECK HEADLAMP (LO) CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector E217.
- 3. Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector E332 or E328.

IPDM E/R		Front combination lamp		Continuity		
Coni	nector	Terminal	Connector Terminal		Continuity	
RH	E217	75	E332	1	Yes	
LH	E217	76	E328	'	165	

#### Does continuity exist?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair the harness or connector.

# 4. CHECK FRONT COMBINATION LAMP (LO) GROUND CIRCUIT

Check continuity between the front combination lamp harness connector E332 or E328 terminal 2 and ground.

Coni	nector	Terminal	_	Continuity
RH	E332	2	Ground	Yes
LH	E328	2	Ground	103

#### Does continuity exist?

YES >> Perform xenon headlamp diagnosis. Refer to EXL-127, "Diagnosis Procedure".

NO >> Repair the harness or connector.

## **XENON HEADLAMP** [XENON TYPE] < DTC/CIRCUIT DIAGNOSIS > XENON HEADLAMP Α Description INFOID:0000000008297302 **OPERATION** B Refer to EXL-127, "Description". PRECAUTIONS FOR TROUBLE DIAGNOSIS Installation or removal of the connector must be done with the lighting switch OFF. • When the lamp is illuminated (when the lighting switch is ON), do not touch the harness, HID control unit, inside of the lamp or the lamp metal parts. To check illumination, temporarily install lamp in the vehicle. Be sure to connect power at the vehicle-side connector. · If the malfunction can be traced directly to the electrical system, first check for items such as blown fuses and fusible links, broken wires or loose connectors, pulled-out terminals and improper connections. Е · Do not work with wet hands. • Using a tester for HID control unit circuit trouble diagnosis is prohibited. • Disassembling the HID control unit or harnesses (bulb socket harness, ballast harness) is prohibited. Immediately after illumination, the light intensity and color will fluctuate this is normal. • When the bulb has reached the end of its lifetime, the brightness may drop significantly, it may flash repeatedly or the light may turn a reddish color. Diagnosis Procedure INFOID:0000000008297303 CHECK XENON BULB Install a known good bulb to the applicable headlamp. Check that the headlamp operates. Is the inspection result normal?

NO >> GO TO 2.

2.CHECK HID CONTROL UNIT

YES

Install a known good HID control unit to the applicable headlamp. Check that the headlamp operates.

Is the inspection result normal?

YES >> Replace HID control unit.

>> Replace the xenon bulb.

NO >> Inspection End.

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Revision: March 2012 EXL-127 2013 Infiniti JX

#### **DAYTIME LIGHT RELAY CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

## DAYTIME LIGHT RELAY CIRCUIT

Description INFOID.000000008352032

The BCM sends a daytime light request to the IPDM E/R via the CAN communication lines. The power flows through fuse 43 located in IPDM E/R to the daytime light relay coil. When the IPDM E/R operates the daytime light relay, power is sent to the daytime lamps.

## Diagnosis Procedure

INFOID:0000000008352033

Regarding Wiring Diagram information, refer to EXL-31, "Wiring Diagram".

# 1. CHECK DAYTIME LIGHT RELAY VOLTAGE SUPPLY

- Turn the ignition switch OFF.
- 2. Disconnect the daytime light relay harness connector E4.
- 3. Turn the ignition switch ON.
- 4. Check the voltage between the following daytime light relay harness connector E4 terminals and ground.

(	+)	(-)	Voltage	
Connector	Terminal	(-)		
	2			
E4	5	Ground	Battery voltage	
	7			

#### Is the inspection results normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2. CHECK DAYTIME LIGHT RELAY CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R harness connector E121.
- 3. Check continuity between the IPDM E/R harness connector E121 and the daytime light relay harness connector E4.

Daytime light relay		IPDM E/R		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	2			
E4	5	E121	14	Yes
	7			

4. Check continuity between the IPDM E/R harness connector E121 and ground.

Connector	Terminal	(—)	Continuity
E121	14	Ground	No

#### Is the inspection results normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace the harnesses or connectors.

## 3.CHECK DAYTIME LAMP RELAY COIL CIRCUIT

1. Check continuity between the IPDM E/R harness connector E218 and daytime light relay harness connector E4.

## DAYTIME LIGHT RELAY CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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IPDM E/R		Daytime light relay		Continuity
Connector	Terminal	Connector Terminal		Continuity
E218	85	E4	1	Yes

2. Check continuity between the IPDM E/R harness connector E218 and ground.

Connector	Terminal	Ground	Continuity
E218	85	Ground	No

#### Does continuity exist?

YES >> GO TO 4.

NO >> Repair or replace the harnesses or connectors.

## 4. CHECK DAYTIME LIGHT RELAY

Check the daytime light relay. Refer to EXL-129, "Component Inspection".

#### Is the inspection results normal?

YES >> GO TO 6.

NO >> Replace relay.

## 5. CHECK DAYTIME LAMP CIRCUIT FOR OPEN

1. Turn the ignition switch OFF.

2. Disconnect the front fog lamp harness connector E303 or E304 in question.

3. Check continuity between the daytime light relay harness connector E4 and the front fog lamp harness connector E303 or E304.

Front fo	g lamp	Daytime lig	ht relay	Continuity
Connector	Terminal	Connector	Terminal	Continuity
LH E303	2	E4	3	Yes
RH E304	3	<u> </u>	6	165

#### Is the inspection results normal?

YES >> GO TO 6.

NO >> Repair or replace the harnesses or connectors.

## 6. CHECK DAYTIME LAMP GOUND CIRCUIT FOR OPEN

- Turn the ignition switch OFF.
- 2. Disconnect front fog lamp harness connector E303 or E304 in question.
- 3. Check continuity between the front fog lamp harness connector E303 or E304 terminal 12 and ground.

Connector	Terminal	(-)	Continuity
LH E303	1	Ground	Yes
RH E304	4	Olouliu	165

#### **Does continuity exist?**

YES >> Inspection End.

NO >> Repair or replace the harnesses or connectors.

## Component Inspection

## ${f 1}$ . CHECK DAYTIME LIGHT RELAY

- 1. Turn ignition switch OFF.
- 2. Remove daytime light relay.
- 3. Check the continuity between daytime light relay terminals 3 and 5 and 6 and 7 when voltage is supplied between terminals 1 and 2.

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INFOID:0000000008352034

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## **DAYTIME LIGHT RELAY CIRCUIT**

## < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Terminals	Voltage	Continuity
3 and 5	ON	Yes
o anu o	OFF	No
6 and 7	ON	Yes
o and 7	OFF	No

## Is the inspection result normal?

YES >> Inspection End.

NO >> Replace daytime light relay.

## **HEADLAMP AIMING SYSTEM (MANUAL)**

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

INFOID:0000000007914332

INFOID:0000000008297324

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## **HEADLAMP AIMING SYSTEM (MANUAL)**

Description INFOID:0000000008472314

The manual headlamp aiming system uses a headlamp aiming switch to adjust the axis of the headlamp aiming motor. The headlamp aiming switch has four settings, each with a different resistance value. The headlamp aiming motor adjusts to the proper axis based off the position of the headlamp aiming switch.

## Component Inspection

# ${f 1}$ . CHECK HEADLAMP AIMING SWITCH

- Disconnect headlamp aiming switch.
- Check resistance between terminal 1 and terminal 2.

	Headlamp aiming switch  Terminal		1 2		Resistance (Approx.)
			160 Ω		
4	2	1	402 Ω		
1		2	620 Ω		
		3	1100 Ω		

#### Is the inspection result normal?

YES >> Headlamp aiming switch is normal.

NO >> Replace the headlamp aiming switch. Refer to PB-7, "Removal and Installation".

## Diagnosis Procedure

Regarding Wiring Diagram information, refer to EXL-109, "Wiring Diagram".

## $oldsymbol{1}$ . CHECK HEADLAMP AIMING MOTOR FUSES

- Turn the ignition switch OFF.
- Check that the fuse is not open.

Unit	Location	Fuse No.	Capacity
Headlamp aiming motor	IPDM E/R	48	10A

#### Is the inspection result normal?

YES >> GO TO 2

NO >> Replace the fuse after repairing the affected circuit.

## $oldsymbol{2}.$ CHECK HEADLAMP AIMING MOTOR POWER SUPPLY CIRCUIT FOR OPEN OR SHORT

- Turn ignition switch OFF.
- Disconnect IPDM E/R harness connector E218, headlamp aiming motor LH harness connector E242 or headlamp aiming motor RH harness connector E243.
- Check continuity between IPDM E/R harness connector E218 and headlamp aiming motor LH harness connector E242 or headlamp aiming motor RH harness connector E243.

IPDI	IPDM E/R Headlamp aiming motor			Continuity	
Connector	Terminal	Connector		Terminal	Continuity
E218	92	LH	E242	14	Voc
L210	84	RH	E243	14	Yes

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

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## **HEADLAMP AIMING SYSTEM (MANUAL)**

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

IPDM E/R		_	Continuity	
Connector	Terminal	_	Continuity	
E218	92	Ground	No	
£210	84	Giouna	INO	

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the harness or connector.

# 3.CHECK HEADLAMP AIMING SWITCH SIGNAL FOR OPEN OR SHORT CIRCUIT

- 1. Disconnect headlamp aiming switch harness connector M121.
- 2. Check continuity between the headlamp aiming switch harness connector M121 and headlamp aiming motor LH harness connector E242 or headlamp aiming motor RH harness connector E243.

Headlamp a	aiming switch	Headlamp aiming motor  Connector Terminal				Continuity
Connector	Terminal			Terminal	Continuity	
M121	M121 1		E242	13	Yes	
IVITZT			E243	13	165	

3. Check continuity between the headlamp aiming switch harness connector M121 and ground.

Headlamp aiming switch		(-)	Continuity	
Connector	Terminal	(-)	Continuity	
M121	1	Ground	No	

#### Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace the harness or connector.

## 4. CHECK HEADLAMP AIMING MOTOR GROUND CIRCUIT

Check continuity between headlamp aiming motor LH harness connector E242 or headlamp aiming motor RH harness connector E243 and ground.

Headlamp aiming motor			()	Continuity	
Connector		Terminal	(-)	Continuity	
LH	E242	15	15	Ground	Yes
RH	E243	15	Ground	165	

#### Is the inspection result normal?

YES >> Inspect the headlamp aiming motors.

NO >> Repair or replace the harness or connector.

INFOID:0000000008297315

INFOID:0000000008297316

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## FRONT FOG LAMP CIRCUIT

Description INFOID:0000000008297314

The IPDM E/R (intelligent power distribution module engine room) controls the front fog lamp relay based on inputs from the BCM via the CAN communication lines. When the front fog lamp relay is energized, power flows from the front fog lamp relay in the IPDM E/R to the front fog lamps.

## Component Function Check

# 1. CHECK FRONT FOG LAMP OPERATION

#### **NWITHOUT CONSULT**

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

(P)WITH CONSULT

- 1. Select EXTERNAL LAMPS of IPDM E/R active test item.
- 2. While 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-133, "Diagnosis Procedure".

## Diagnosis Procedure

Regarding Wiring Diagram information, refer to EXL-51, "Wiring Diagram".

## 1. CHECK FRONT FOG LAMP FUSE

- 1. Turn the ignition switch OFF.
- Check if the following fuse is blown.

Unit	Location	Fuse No.	Capacity	
Front fog lamp	IPDM E/R	42	15A	

#### Is the fuse open?

YES >> Replace the blow fuse after repairing the affected circuit.

NO >> GO TO 2

## 2.CHECK FRONT FOG LAMP OUTPUT VOLTAGE

- 1. Turn the ignition switch OFF.
- 2. Disconnect the front fog lamp harness connector E305 or E306.
- 3. Turn the ignition switch ON.
- 4. Turn the front fog lamps ON.
- 5. Check the voltage between the fog lamp harness connector E305 or E306 terminal 1 and ground.

(+)		(_)	Voltage	
C	onnector	Terminal	erminal (Appro	(Approx.)
LH	E305	1	Ground	Pattonyvoltogo
RH	E306	ı	Ground	Battery voltage

#### Is battery voltage present?

YES >> GO TO 4 NO >> GO TO 3

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#### FRONT FOG LAMP CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

# 3.CHECK FRONT FOG LAMP OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R harness connector E217.
- Check continuity between the IPDM E/R harness connector E217 and the front fog lamp harness connector E305 or E306.

	IPDM E/R		Front fog lamp		Continuity
Coni	nector	Terminal	Connector Terminal		Continuity
LH	E217	79	E305	1	Yes
RH	LZ17	78	E306		165

## Does continuity exist?

YES >> Replace IDPM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace the harnesses or connectors.

## 4. CHECK FRONT FOG LAMP GROUND CIRCUIT

- 1. Disconnect the front fog lamp connector.
- 2. Check continuity between the front fog lamp harness connector E305 or E306 terminal 2 and ground.

Coni	nector	Terminal	_	Continuity
LH	E305	2	Ground	Yes
RH	E306	2	Ground	103

#### Does continuity exist?

YES >> Inspect the fog lamp bulb.

NO >> Repair or replace the harnesses or connectors.

## **PARKING LAMP CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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## PARKING LAMP CIRCUIT

Description INFOID:000000008360031

The IPDM E/R (intelligent power distribution module engine room) controls the tail lamp relay based on inputs from the BCM via the CAN communication lines. When the tail lamp relay is energized, power flows through fuse 51 and 52, located in the IPDM E/R. Power then flows to the front and rear combination lamps, license plate lamps.

## Component Function Check

INFOID:0000000007914335

## 1. CHECK PARKING LAMP OPERATION

#### **NWITHOUT CONSULT**

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

Check that the parking lamp is turned ON.

#### **WITH CONSULT**

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

2. While 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-138, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000008360075

Regarding Wiring Diagram information, refer to EXL-68, "Wiring Diagram".

## ${f 1}.$ CHECK PARKING LAMP FUSES

1. Turn the ignition switch OFF.

2. Check that the following fuses are not blown.

Unit	Location	Fuse No.	Capacity
Parking lamps	IPDM E/R	51	10A
r arking lamps	IF DIVI L/IX	52	10A

#### Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

## 2.CHECK TAIL LAMP RELAY OUTPUT (VOLTAGE)

- 1. Disconnect the front combination lamp connectors, front side marker lamp connectors, rear combination lamp connectors and license plate lamp connectors.
- 2. Turn the ignition switch ON.
- Turn the parking lamps ON.
- 4. With the parking lamps ON, check voltage between the front combination lamp connector and ground.

(+)			(-)	Voltage (Approx.)	
	Connector Terminal		(-)	(Approx.)	
LH	E235	7	Cround	Battery voltage	
RH	E240	ľ	Ground		

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## **PARKING LAMP CIRCUIT**

## < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

5. With the parking lamps ON, check voltage between the front side marker lamp connector and ground.

(+)			(-)	Voltage (Approx.)
	Connector	Terminal	(-)	(Approx.)
LH	E329	0	Ground	Pattory voltage
RH	E333	9	Ground	Battery voltage

6. With the parking lamps ON, check voltage between the rear combination lamp connector and ground.

(+)			(-)	Voltage	
	Connector Terminal		(-)	(Approx.)	
LH	B406	2	Ground	Rattery voltage	
RH	B407	2	Gloulia	Battery voltage	

7. With the parking lamps ON, check voltage between the license plate lamp connector and ground

(+)			(_)	Voltage	
	Connector	Terminal	(-)	(Approx.)	
LH	D561	2	Ground	Pattony voltago	
RH	D562	2	Ground	Battery voltage	

## Are the inspection results normal?

YES >> GO TO 4 NO >> GO TO 3

# 3.CHECK PARKING LAMP CIRCUIT (OPEN)

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

IPDM E/R		Front comb	Continuity		
Conne	ctor	Terminal	Connector	Terminal	Continuity
LH	LH         E218         90		E235	7	Yes
RH			E240	ľ	

4. Check continuity between the IPDM E/R harness connector and the front side marker lamp harness connector.

	IPI	DM E/R	Front side	Continuity	
Со	nnector	Terminal	Connector	Terminal	Continuity
LH	E218	90	E329	0	Yes
RH	E210	90	E333	9	ies

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

IPDM E/R		Rear combina	Continuity		
Conne	ector	Terminal	Connector	Terminal	Continuity
LH	E121	10	B406	2	Yes
RH	E 12 I	9	B407	2	162

## **PARKING LAMP CIRCUIT**

## < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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

	IPDM E/R		License plate lamp		Continuity
	Connector	Terminal	Connector	Terminal	Continuity
LH	LH E121 10		D561	2	Yes
RH	LIZI	10	D562	2	165

## Are the inspection results normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace the harness or connector.

## 4. CHECK PARKING LAMP GROUND CIRCUITS

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

(+)			( )	Continuity	
	Connector Terminal		(-)	Continuity	
LH	E235	Q	Ground	Yes	
RH	E240	0	Giodila	ies	

Check continuity between the front side marker lamp harness connector and ground.

(+)			(-)	Continuity	
	Connector	Terminal	(-)	Continuity	
LH	E329	10	Cround	Yes	
RH	E333	10	Ground		

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

(+)			( )	Continuity
	Connector	Terminal	(-)	Continuity
LH	B406	3	Ground	Yes
RH	B407	3	Ground	

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

	(+)			Continuity
	Connector	Terminal	(-)	Continuity
LH	D561	1	Ground	Yes
RH	D562	1		

#### Are the inspection results normal?

YES >> Inspect the parking lamp bulb.

NO >> Repair or replace the harness or connector.

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[XENON TYPE]

## TURN SIGNAL LAMP CIRCUIT

Description INFOID:000000008333579

The BCM monitors inputs from the combination switch (lighting and turn signal switch) to determine when to activate the turn signals. The BCM outputs voltage direction to the left and right turn signals during turn signal operation or both during hazard warning operation. The BCM sends a turn signal indicator request to the combination meter via the CAN communication lines.

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

#### NOTE:

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

## Component Function Check

INFOID:0000000007914339

## 1. CHECK TURN SIGNAL LAMP

## (P)CONSULT

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

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

#### Is the inspection result normal?

YES >> Turn signal lamp circuit is normal.

NO >> Refer to EXL-138, "Diagnosis Procedure".

## **Diagnosis Procedure**

INFOID:0000000007914340

Regarding Wiring Diagram information, refer to EXL-59. "Wiring Diagram".

## 1. CHECK TURN SIGNAL LAMP BULB

Check the applicable lamp bulb to be sure the proper bulb standard is in use and the bulb is not open.

#### Is the bulb OK?

YES >> GO TO 2.

NO >> Replace the bulb.

# 2. CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

- Turn the ignition switch OFF.
- 2. Disconnect the front combination lamp harness connector or the rear combination lamp harness connector in question.
- 3. Turn the ignition switch ON.
- 4. Operate the turn signal switch.
- While the turn signal is operating, check the voltage between the front combination lamp harness connector and ground.

(+)		(-)	Voltage
Connector	Terminal	(-)	(Approx.)

#### **TURN SIGNAL LAMP CIRCUIT**

## < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

RH	E239			
LH	E234	5	Ground	(V) 15 10 5 0 1 s

6. While the turn signal is operating, check the voltage between the rear combination lamp harness connector and ground.

	(+)		(_)	Voltage (Approx.)	
	Connector	Terminal	(-)	(Approx.)	
RH	B409				
LH	B408	4	Ground	(V) 15 10 5 0	

#### Is voltage reading as specified?

YES >> GO TO 5.

NO >> GO TO 3.

# $3. \mathsf{CHECK}\ \mathsf{TURN}\ \mathsf{SIGNAL}\ \mathsf{LAMP}\ \mathsf{CIRCUIT}\ \mathsf{FOR}\ \mathsf{OPEN}$

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM harness connector M20 or M80.
- Check continuity between the BCM harness connector M80 and the front combination lamp harness connector.

BCM		Front comb	ination lamp	Continuity	
Cor	nnector	Terminal	Connector	Terminal	Continuity
LH	M80	117	E234	5	Yes
RH	IVIOU	105	E239	3	165

4. Check continuity between the BCM harness connector M20 and the rear combination lamp harness connector.

	BCM		Rear combination lamp		Continuity
Cor	nnector	Terminal	Connector	Terminal	Continuity
LH	M20	103	B408	1	Yes
RH	IVIZO	92	B409	4	163

#### Is the inspection results normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connectors.

## 4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

1. Check continuity between the BCM harness connector M80 and ground.

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#### TURN SIGNAL LAMP CIRCUIT

[XENON TYPE]

	BCM			Continuity
Cor	nnector	Terminal	Ground	Continuity
LH	M80	117	Giouna	No
RH	IVIOU	105		INU

2. Check continuity between the BCM harness connector M20 and the rear combination lamp connector.

	BCM			Continuity
Cor	nnector	Terminal	Ground	Continuity
LH	M20	103	Ground	No
RH	IVIZU	92		INO

## Are the inspection results normal?

YES >> Replace BCM. Refer to <u>BCS-77</u>, "Removal and Installation".

NO >> Repair or replace the harness or connectors.

# 5. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

1. Check continuity between the front combination lamp harness connector or the rear combination lamp harness connector in question and ground.

·	ront combination lamp	( )	Continuity	
Connec	tor	Terminal	(-)	Continuity
LH	E234	6	Ground	Yes
RH	E239	0	Ground	165

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

	Rear combination lamp	( )	Continuity	
Connec	ctor	Terminal	(-)	Continuity
LH	B408	Б	Ground	Yes
RH	B409	3	Ground	165

#### Are continuity results as specified?

YES >> Replace the malfunctioning lamp.

NO >> Repair or replace the harness or connectors.

[XENON TYPE]

## **OPTICAL SENSOR**

Description INFOID:0000000008487543

The optical sensor measures ambient light and transmits the optical sensor signal to the BCM.

## Component Function Check

INFOID:0000000007914341

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## 1. CHECK OPTICAL SENSOR SIGNAL TO BCM

(E)CONSULT

- 1. Turn the ignition switch ON.
- 2. Select OPTI SEN (DTCT) of BCM (HEAD LAMP) DATA MONITOR item.
- 3. Turn the lighting switch to AUTO.

Monitor item	Condition	Voltage (Approx.)
OPTI SEN (DTCT)	When outside of vehicle is bright	3.1 V or more **
OF IT SERV (BTOT)	When outside of vehicle is dark	0.6 V or less

<sup>\*:</sup>Outside light varies. The value may be less than the standard value if brightness is weak.

#### Is the inspection result normal?

YES >> Optical sensor is normal.

NO >> Refer to <u>EXL-141</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

INFOID:0000000007914342

Regarding Wiring Diagram information, refer to <u>EXL-43</u>, "Wiring Diagram".

## 1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

- Turn the ignition switch OFF.
- 2. Disconnect the optical sensor harness connector M15.
- Turn the ignition switch ON.
- Turn the lighting switch to AUTO.
- 5. Check the voltage between the optical sensor harness connector M15 and ground.

(+)		(-)	Voltage	
Connector	Terminal	(-)	(Approx.)	
M15	1	Ground	5 V	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

## 2. CHECK OPTICAL SENSOR GROUND CIRCUIT

Turn the ignition switch OFF.

2. Check continuity between the optical sensor harness connector M15 and ground.

(+)		(-)	Continuity	
Connector	Terminal	(-)	Continuity	
M15	3	Ground	Yes	

#### Is the inspection result normal?

YES >> GO TO 6

NO >> GO TO 5

## 3. CHECK OPTICAL SENSOR POWER SUPPLY CIRCUIT

1. Turn the ignition switch OFF.

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#### < DTC/CIRCUIT DIAGNOSIS >

- Disconnect the BCM harness connector M18.
- 3. Check continuity between optical sensor harness connector M15 and BCM harness connector M18.

Optica	Optical sensor		BCM	
Connector	Terminal	Connector	Terminal	Continuity
M15	1	M18	3	Yes

4. Check continuity between optical sensor harness connector M15 terminal 1 and ground.

(+)		(_)	Continuity	
Connector	Terminal	(-)		
M15	1	Ground	No	

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-77, "Removal and Installation".

NO >> Repair or replace the harness or connectors.

## 4. CHECK OPTICAL SENSOR POWER SUPPLY FOR SHORT CIRCUIT

Check continuity between optical sensor harness connector and ground.

Connector	Terminal	Ground	Continuity
M15	1		No

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-77, "Removal and Installation".

NO >> Repair or replace harness or connector.

## 5. CHECK OPTICAL SENSOR GROUND FOR OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect the BCM harness connector M18.
- Check continuity between optical sensor harness connector M15 terminal 3 and BCM harness connector M18 terminal 17.

Optica	Optical sensor		ВСМ	
Connector	Terminal	Connector	Terminal	Continuity
M15	3	M18	17	Yes

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-77, "Removal and Installation".

NO >> Repair or replace harness or connector.

## O.CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

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

Optica			ВСМ	
Connector	Terminal	Connector	Terminal	Continuity
M15	2	M18	4	Yes

Check continuity between optical sensor harness connector and ground.

Connector	Terminal	(-)	Continuity
M15	2	Ground	No

#### Is the inspection result normal?

YES >> Replace the optical sensor. Refer to EXL-165, "Removal and Installation".

## **OPTICAL SENSOR**

[XENON TYPE]

NO >> Repair or replace harness or connectors.

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## HAZARD SWITCH

## Component Function Check

INFOID:0000000007914343

## 1. CHECK HAZARD SWITCH SIGNAL BY CONSULT

## **(P)CONSULT DATA MONITOR**

- Turn ignition switch ON.
- Select HAZARD SW of BCM (FLASHER) DATA MONITOR item.
- 3. While operating the hazard switch, check the monitor status.

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

## Is the inspection result normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to <u>EXL-144</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

INFOID:0000000007914344

Regarding Wiring Diagram information, refer to EXL-59, "Wiring Diagram".

## 1. CHECK HAZARD SWITCH SIGNAL INPUT

- Turn ignition switch OFF.
- Disconnect A/C and A/V switch assembly harness connector M98.
- 3. Turn ignition switch ON.
- 4. Check voltage between A/C and A/V switch assembly harness connector M98 and ground.

(+)  A/C and A/V switch assembly (hazard switch)		(-)	Voltage (Approx.)
Connector	Terminal		
M98	16	Ground	(V) 15 10 5 0 → 10ms JPMIA0154GB

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

# 2.CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M18.
- 3. Check continuity between A/C and A/V switch assembly harness connector and BCM harness connector.

Hazaro	Hazard switch		BCM	
Connector	Terminal	Connector	Terminal	Continuity
M98	16	M18	36	Yes

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the harness or connectors.

## **HAZARD SWITCH**

## < DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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# 3. CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

Check continuity between A/C and A/V switch assembly harness connector and ground.

Hazard switch			Continuity
Connector	Terminal	Ground	Continuity
M98	16		No

## Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-77, "Removal and Installation".

NO >> Repair or replace the harness or connectors.

# 4. CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

Check continuity between A/C and A/V switch assembly harness connector and ground.

Hazard switch			Continuity
Connector	Terminal	Ground	Continuity
M98	1		Yes

## Is the inspection result normal?

YES >> Replace A/C and A/V switch assembly. Refer to EXL-167, "Removal and Installation".

NO >> Repair or replace the harness or connectors.

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## **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

# SYMPTOM DIAGNOSIS

# **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

Symptom Table

### **CAUTION:**

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

Sym	otom	Possible cause	Inspection item
Headlamp does not switch to the high beam.	One side	Fuse     Harness between IPDM E/R and the front combination lamp     Front combination lamp (High beam relay)     IPDM E/R     Harness between the front combination lamp and ground	Headlamp (HI) circuit Refer to <u>EXL-123</u> .
	Both sides	_	Symptom diagnosis BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM Refer to EXL-150.
High beam indicator lamp lamp switched to the high		BCM     Combination meter	Combination meter     Data monitor HI-BEAM IND     BCM (HEAD LAMP)     Active test "HEADLAMP"
	One side	Front combination lamp (High beam relay)	_
Headlamp does not switch to the low beam.	Both sides	Combination switch (lighting and turn signal switch)     Harness between the combination switch and BCM     BCM	Combination switch (lighting and turn signal switch) Refer to BCS-76.
		High beam request signal BCM IPDM E/R	IPDM E/R Data monitorHL HI REQ
		IPDM E/R	_
Headlamp does not turn ON.	One side	Fuse     Xenon bulb     Harness between IPDM E/R and the front combination lamp     Front combination lamp (xenon headlamp)     IPDM E/R     Harness between the front combination lamp and ground	Headlamp (LO) circuit Refer to <u>EXL-125</u> .
	Both sides	_	Symptom diagnosis BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON Refer to EXL-151.
Hoodlamp doos not turn	When the ignition switch is turned ON	BCM     Combination switch (lighting and turn signal switch)	Combination switch (lighting and turn signal switch) Refer to BCS-76.
Headlamp does not turn OFF.	The ignition switch is turned OFF (After activating the battery saver).	IPDM E/R	_

# **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

Symptom		Possible cause	Inspection item
Headlamp is not turned ON/OFF with lighting switch AUTO.		<ul> <li>Combination switch (lighting and turn signal switch)</li> <li>Harness between combination switch and BCM</li> <li>BCM</li> </ul>	Combination switch Refer to BCS-76.
		<ul><li>Optical sensor</li><li>Harness between optical sensor and BCM</li><li>BCM</li></ul>	Optical sensor Refer to <u>EXL-141</u> .
Daytime light system does not activate. (if equipped)		<ul> <li>Fuse</li> <li>Harness between IPDM E/R and the daytime light relay</li> <li>Harness between daytime light relay and the front fog lamp</li> <li>Harness between the front fog lamp and ground</li> <li>Daytime light bulb</li> </ul>	Symptom diagnosis Daytime light system inoperative. Refer to EXL-154.
		<ul><li>IPDM E/R</li><li>Daytime light relay</li><li>BCM</li></ul>	
Headlamp aiming motor	One side	<ul> <li>Fuse</li> <li>Harness between IPDM E/R and headlamp aiming motor</li> <li>Headlamp aiming motor</li> <li>IPDM E/R</li> </ul>	Headlamp aiming switch Refer to <u>EXL-131</u> .
does not operate.	Both sides	<ul> <li>Headlamp aiming switch</li> <li>Harness between aiming switch and headlamp aiming motor</li> <li>IPDM E/R</li> </ul>	Front combination lamp (headlamp aiming motor) Refer to EXL-131.
Front fog lamp is not turned ON.	One side	<ul> <li>Front fog lamp bulb</li> <li>Harness between IPDM E/R and front fog lamp</li> <li>Front fog lamp</li> <li>IPDM E/R</li> </ul>	Front fog lamp circuit Refer to <u>EXL-133</u> .
turnet ON.	Both sides	_	Symptom diagnosis BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON Refer to EXL-133.
Parking lamp is not turned ON.	One side	<ul> <li>Parking lamp bulb</li> <li>Harness between IPDM E/R and front/rear combination lamp</li> <li>Harness between front/rear combination lamp and ground</li> <li>Front/rear combination lamp</li> <li>IPDM E/R</li> </ul>	Parking lamp circuit Refer to <u>EXL-135</u> .
	Both sides	_	Symptom diagnosis PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON Refer to EXL-152.
Turn signal lamp does not blink.	Indicator lamp is normal. (The applicable side performs the high flasher activation).	Hazard BCM and each turn signal lamp     Turn signal lamp bulb	Turn signal lamp circuit Refer to EXL-138.

**EXL-147** Revision: March 2012 2013 Infiniti JX

# **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

Symp	tom	Possible cause	Inspection item
	One side	Combination meter	_
Turn signal indicator lamp	Both sides (Always)	Turn signal indicator lamp signal BCM Combination meter	Combination meter     Data monitor TURN IND     BCM (FLASHER)     Active test FLASHER
does not blink.	Both sides (Does blink when activating hazard warning lamp with the ignition switch OFF)	Combination meter power supply and ground circuit     Combination meter	Combination meter Power supply and ground circuit Refer to MWI-73.
Hazard warning lamp do     Hazard warning lamp co     signal is normal).		Hazard switch     Harness between the hazard switch and BCM     BCM	Hazard switch Refer to EXL-144.

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

# NORMAL OPERATING CONDITION

Description INFOID:0000000007914352

### XENON HEADLAMP

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

### **AUTO LIGHT SYSTEM**

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

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## BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

# BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description INFOID.000000007914353

The headlamps (both sides) do not switch to high beam when the lighting switch is in the HI or PASS setting.

# Diagnosis Procedure

INFOID:0000000007914354

# 1.combination switch (lighting and turn signal switch) inspection

Check the combination switch (lighting and turn signal switch). Refer to <u>BCS-7</u>, "COMBINATION SWITCH READING SYSTEM: System Description".

Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

## (P)CONSULT DATA MONITOR

- I. 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
TIE TII NEQ	(2nd)	Except for HI or PASS	OFF

### Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-77, "Removal and Installation".

3. HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-123. "Diagnosis Procedure".

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

## **BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON**

< SYMPTOM DIAGNOSIS > [XENON TYPE]

# BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description INFOID:0000000007914355

The headlamps (both sides) do not turn ON in any lighting switch setting.

Diagnosis Procedure

INFOID:0000000007914356

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1. CHECK COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH)

Check the combination switch (lighting and turn signal switch). Refer to <u>BCS-7</u>, "COMBINATION SWITCH READING SYSTEM: System Description".

Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

**®CONSULT DATA MONITOR** 

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

Monitor item	Condition		Monitor status
HL LO REQ	Lighting switch	2nd	ON
TIE EO NEQ	Lighting switch	OFF	OFF

## Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-77, "Removal and Installation".

# 3. HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to EXL-125, "Diagnosis Procedure".

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

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

Description INFOID:000000007914357

The parking, license plate, tail lamps and side marker lamps do not turn ON with the combination switch in any setting.

## **Diagnosis Procedure**

INFOID:0000000007914358

# 1. COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) INSPECTION

Check the combination switch (lighting and turn signal switch). Refer to <u>BCS-76</u>, "Symptom Table". Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

## (P)CONSULT DATA MONITOR

- 1. Select TAIL & CLR REQ of IPDM E/R DATA MONITOR item.
- 2. While operating the lighting switch, check the monitor status.

Monitor item	Condition		Monitor status
TAIL & CLD DEO	& CLR REQ Lighting switch	1st	ON
TAIL & OLIVINEQ		OFF	OFF

## Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-77, "Removal and Installation".

## PARK LAMP CIRCUIT INSPECTION

Check the parking lamp circuit. Refer to <u>EXL-135</u>, "<u>Diagnosis Procedure</u>". Is the tail lamp circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

## BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

# BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:000000008297319

The front fog lamps do not turn ON in any setting.

Diagnosis Procedure

INFOID:0000000008297320

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# 1. COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) INSPECTION

Check the combination switch (lighting and turn signal switch). Refer to BCS-76, "Symptom Table".

Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

# 2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

## (P)WITH CONSULT 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
TRIOGILQ	(Lighting switch 2nd)	OFF	OFF

## Is the monitor item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-77, "Removal and Installation".

# 3. FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-133, "Diagnosis Procedure".

### Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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# **DAYTIME LIGHT SYSTEM INOPERATIVE**

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

## DAYTIME LIGHT SYSTEM INOPERATIVE

Description INFOID:000000008487547

The daytime light system is inoperative even though the combination switch (lighting and turn signal switch) and parking brake switch are in the normal setting, also whenever the engine is operating.

## Diagnosis Procedure

INFOID:0000000008486442

## 1. CHECK DAYTIME LIGHT OPERATION

- 1. Perform BCM(HEADLAMP) DAYTIME RUNNING LIGHT active test. Refer to <u>BCS-16</u>, "HEADLAMP : <u>CONSULT Function (BCM HEADLAMP)"</u>.
- 2. Check that the daytime lights turn on.

## Is the inspection results normal?

YES >> Replace BCM. Refer to BCS-77, "Removal and Installation".

NO >> GO TO 2.

# 2.CHECK DAYTIME LIGHT RELAY FUSE

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

Unit	Fuse No.	Capacity
Daytime light	43	10 A

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the blown fuse after repairing the affected circuit.

# 3.CHECK DAYTIME LIGHT BULBS

Check the daytime light bulbs are not open.

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace the bulbs.

# 4. PERFORM DAYTIME LIGHT CIRCUIT INSPECTION

Check the daytime light circuit. Refer to EXL-128, "Diagnosis Procedure".

#### Is the inspection results normal?

YES >> Replace IPDM E/R. Refer to PCS-32, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

## **HEADLAMP AIMING ADJUSTMENT**

< PERIODIC MAINTENANCE >

[XENON TYPE]

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# PERIODIC MAINTENANCE

## HEADLAMP AIMING ADJUSTMENT

Inspection INFOID:0000000007914361

#### PREPARATION BEFORE ADJUSTING

Before performing aiming adjustment, check the following:

- Ensure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Ensure there is no load in vehicle other than the driver (or equivalent weight placed in driver's position).
- Coolant and engine oil filled to correct level, and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- Confirm spare tire, jack and tools are properly stowed.
- · Carefully wipe off any dirt from headlamp lens.

#### **CAUTION:**

## Do not use organic solvent (thinner, gasoline etc.)

- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight ahead position.
- Confirm headlamp aiming switch is set to "0" (zero) position.
- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.

#### NOTE:

- For headlamp aiming details, refer to regulations in your area.
- By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.
- Use adjusting screw to perform aiming adjustment.
- · Perform headlamp aiming if:
- The vehicle front body has been repaired;
- The front combination lamp has been removed or replaced;
- Any outfitting has been installed;
- The vehicle's standard load condition has been substantially increased.

## AIMING ADJUSTMENT SCREW

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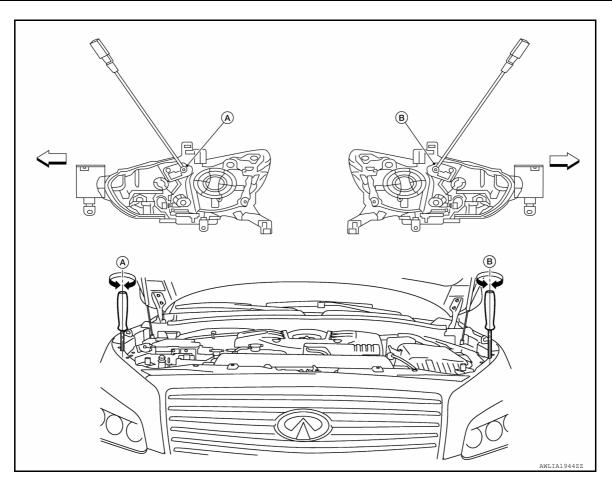
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- A. Headlamp RH HI/LO (UP/DOWN) adjustment screw
- B. Headlamp LH HI/LO (UP/DOWN) ad-  $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$  : Vehicle center justment screw

# Aiming Adjustment Procedure

INFOID:0000000007914362

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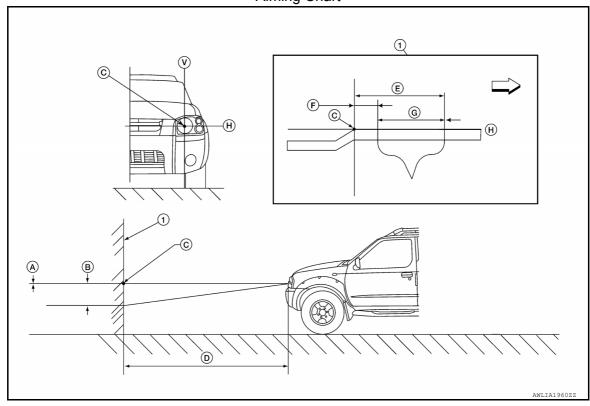
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## Aiming Chart



- Adjustment screen
- Minimum acceptable vertical aim dimension
- Headlamp bulb center (H-V point)
- Distance of headlamp aiming screen from vehicle 7.62 m (25 ft)
- В Maximum acceptable vertical aim dimension
- Ε Maximum aim evaluation distance from vertical center on aiming screen 399 mm (3°R)
  - Horizontal aiming evaluation line

- Minimum aim evaluation distance from vertical center on aiming screen 133 mm (1°R)

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Vertical aiming evaluation line < ☐ Right

A (Minimum acceptable vertical aim dimension) -3.3 mm (0.13 in) 0.025° up B (Maximum acceptable vertical aim dimension) 36.6 mm (1.44 in) 0.275° down

Aim evaluation area

## LOW BEAM AND HIGH BEAM

#### NOTE:

- · Basic illuminating area for evaluation and/or adjustment should be within range shown on aiming chart.
- Use adjustment screw to perform aiming adjustment.
  - Ensure fog lamps (if equipped) are turned off.
- Block the opposite headlamp from projecting a beam pattern onto the adjustment screen, using a suitable object. Aim each headlamp individually.

#### **CAUTION:**

Do not cover the lens surface with a tape etc. The lens is made of resin.

Place the screen on the same level and flat surface as the vehicle.

#### NOTE:

- Surface should be free of any debris that would cause a difference between the headlamp center and the adjustment screen.
- Face the front of the vehicle to the screen and measure distance between the headlamp center and the screen surface.

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## **HEADLAMP AIMING ADJUSTMENT**

< PERIODIC MAINTENANCE >

[XENON TYPE]

## Distance between the headlamp center and the screen (D) : 7.62 m (25 ft)

- 5. Start the engine. Turn the headlamp on.
- 6. Determine the preferred vertical aim range dimensions, using the aiming chart.
- 7. Measure the projected beam within the aim evaluation segment on the screen.
- Adjust the beam pattern of each headlamp until the aim evaluation segment (the area relative to both the highest and lowest cutoff line height) is positioned within the vertical aim range dimensions shown on the aiming chart.

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## FRONT FOG LAMP AIMING ADJUSTMENT

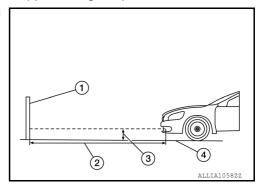
# Aiming Adjustment

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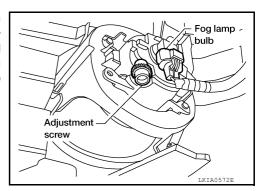
NOTE:

Check the following conditions before performing the aiming adjustment.

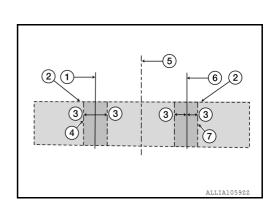
- Keep all tires inflated to correct pressure.
- · Place vehicle on level ground.
- See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have the driver or equivalent weight placed in driver seat.
- When performing adjustment, if necessary, cover the headlamps and opposite fog lamp.
- 1. Set the distance between the screen and the center of the fog lamp lens as shown.
  - (1) Aiming screen or a matte white surface
  - (2) 7.62 m (25 ft)
  - (3) Floor to center of fog lamp lens
  - (4) Floor



- Turn front fog lamps ON.
- Access adjustment screw from underneath front bumper. Use a Phillips screwdriver to adjust. Turn screw clockwise to raise pattern and counterclockwise to lower pattern. Adjust front fog lamps using adjusting screw so that the top edge of the high intensity zone is 100 mm (4 in) below the height of the fog lamp centers as shown



- (1) Vertical center line of left fog lamp
- (2) Lamp center above ground
- (3) 100 mm (4 in) (0.76 deg) below lamp center above ground
- (4) Left fog lamp high intensity area
- (5) Vehicle center axis
- (6) Vertical center line of right fog lamp
- (7) Right fog lamp high intensity area



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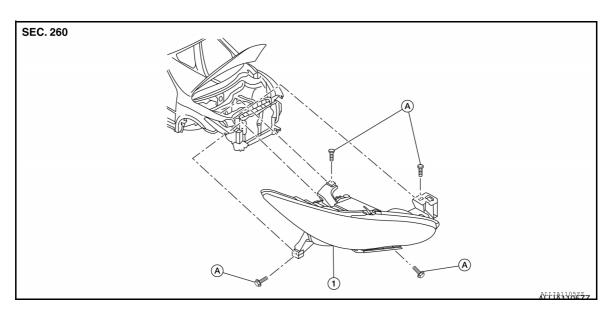
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# REMOVAL AND INSTALLATION

## FRONT COMBINATION LAMP

Exploded View



1. Front combination lamp

A. Bolt

## Removal and Installation

INFOID:0000000007914366

#### FRONT COMBINATION LAMP

#### Removal

## **CAUTION:**

Disconnect the battery negative terminal or remove the fuse.

- 1. Remove front bumper fascia. Refer to EXT-17, "Removal and Installation".
- 2. Release the clips and pawls using a suitable tool and remove hood ledge finisher.
- 3. Remove front combination lamp bolts.
- 4. Pull front combination lamp forward.
- 5. Disconnect the harness connectors from the front combination lamp and remove.

#### Installation

Installation is in the reverse order of removal.

#### NOTE:

After installation, perform headlamp aiming adjustment. Refer to EXL-157, "Aiming Adjustment Procedure".

#### XENON BULB

Removal

#### **WARNING:**

To prevent burns, never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF.

#### **CAUTION:**

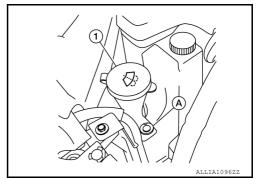
- After installing the bulb, install the plastic cover and the bulb socket securely for watertightness.
- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.
- Disconnect the battery negative terminal or remove the fuse.

## FRONT COMBINATION LAMP

## < REMOVAL AND INSTALLATION >

[XENON TYPE]

- Release the clips and pawls using a suitable tool and remove hood ledge finisher.
- 2. Remove the washer tank inlet tube clip (A) from the coolant reservoir and pull the washer tank inlet tube (1) from the washer tank (RH only).



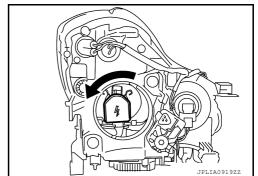
3. Rotate plastic cover counterclockwise and unlock from the front combination lamp.

Rotate xenon bulb socket counterclockwise and unlock from the front combination lamp.

5. Remove retaining spring and then remove xenon bulb from the front combination lamp.

#### **CAUTION:**

Do not break the xenon bulb ceramic tube when replacing



#### Installation

Installation is in the reverse order of removal.

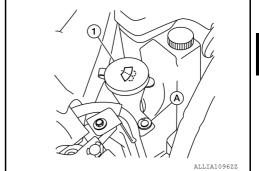
#### NOTE:

After installation, perform headlamp aiming adjustment. Refer to EXL-157, "Aiming Adjustment Procedure".

## PARKING LAMP BULB

#### Removal

- Release the clips and pawls using a suitable tool and remove hood ledge finisher.
- 2. Remove the washer tank inlet tube clip (A) from the coolant reservoir and pull the washer tank inlet tube (1) from the washer tank (RH only).



- 3. Rotate parking lamp socket counterclockwise and unlock from the front combination lamp.
- 4. Remove parking lamp bulb from bulb socket.

#### Installation

Installation is in the reverse order of removal.

#### FRONT TURN SIGNAL LAMP BULB

#### Removal

- 1. Release the clips and pawls using a suitable tool and remove hood ledge finisher.
- Rotate front turn signal lamp socket counterclockwise and unlock from the front combination lamp.
- Remove front turn signal lamp bulb from bulb socket.

#### Installation

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## FRONT COMBINATION LAMP

## < REMOVAL AND INSTALLATION >

[XENON TYPE]

Installation is in the reverse order of removal.

## FRONT SIDE MARKER LAMP BULB

### Removal

- 1. Release the clips and pawls using a suitable tool and remove hood ledge finisher.
- 2. Rotate the front side marker lamp socket counterclockwise and unlock from the front combination lamp.
- 3. Remove the front side marker lamp bulb from the bulb socket.

#### Installation

[XENON TYPE]

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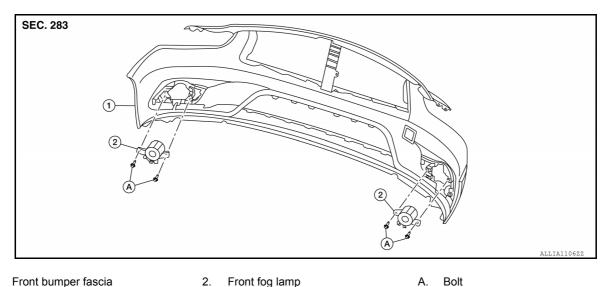
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## FRONT FOG LAMP

**Exploded View** INFOID:0000000007914369



Front fog lamp

Bolt

INFOID:0000000007914370

## Removal and Installation

### FRONT FOG LAMP

#### Removal

- 1. Remove bumper fascia. Refer to EXT-17, "Removal and Installation".
- Disconnect the harness connector from the front fog lamp.
- Remove front fog lamp bolts.
- Remove front fog lamp.

#### Installation

Installation in the reverse order of removal.

#### NOTE:

After installation, perform fog lamp aiming adjustment. Refer to EXL-159, "Aiming Adjustment".

### FRONT FOG LAMP BULB

Removal

#### **WARNING:**

To prevent burns, never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF.

#### **CAUTION:**

- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.
- Remove front fender protector. Refer to EXT-27, "FENDER PROTECTOR: Removal and Installation".

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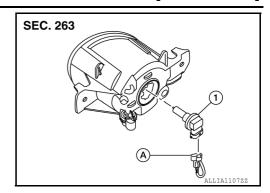
**EXL-163** Revision: March 2012 2013 Infiniti JX

## **FRONT FOG LAMP**

## < REMOVAL AND INSTALLATION >

[XENON TYPE]

- 2. Disconnect the harness connector from the front fog lamp (A).
- 3. Rotate bulb (1) counterclockwise and remove.



Installation

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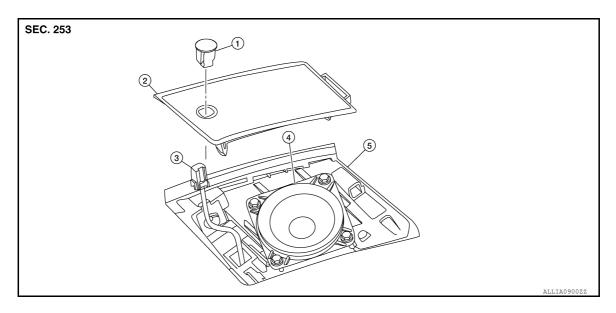
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INFOID:0000000007914375

# **OPTICAL SENSOR**

**Exploded View** INFOID:0000000007914374



- Optical sensor
- Instrument panel tweeter RH
- Instrument panel tweeter grille RH 2.
- Instrument panel

- Optical sensor harness connector

## Removal and Installation

#### **CAUTION:**

Whenever a suitable tool is used, always wrap the a cloth around the end of the tool to protect components from damage.

## **REMOVAL**

- Release the instrument panel tweeter grille RH using a suitable tool.
- Insert a suitable tool between the optical sensor and the instrument panel tweeter grille RH. Release the optical sensor and lift upward.
- Disconnect the harness connector from the optical sensor and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

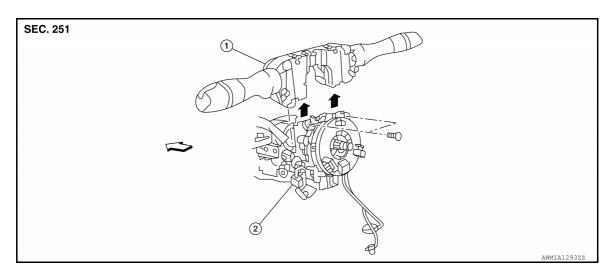
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# LIGHTING & TURN SIGNAL SWITCH

Exploded View



- 1. Combination switch
- 2. Combination switch harness connector <> Front

### Removal and Installation

INFOID:0000000008297285

## NOTE:

The lighting & turn signal switch is integrated into the combination switch and is replaced as an assembly.

## **REMOVAL**

- 1. Remove the steering column covers. Refer to IP-17, "Removal and Installation".
- 2. Remove the combination switch screws.
- 3. Disconnect the harness connector from the combination switch.
- 4. Remove the combination switch.

## **INSTALLATION**

## **HAZARD SWITCH**

< REMOVAL AND INSTALLATION >

[XENON TYPE]

## HAZARD SWITCH

## Removal and Installation

INFOID:0000000008297287

The hazard switch is integrated in the multifunction switch. Refer to AV-669, "Removal and Installation - AV and AC Switch Assembly" (BASE AUDIO), AV-389, "Removal and Installation - AV and AC Switch Assembly" (BOSE AUDIO W/O SURROUND SOUND), AV-129, "Removal and Installation - AV and AC Switch Assembly" (BOSE AUDIO WITH SURROUND SOUND) or AV-826, "Removal and Installation - AV and AC Switch Assembly" (TELEMATICS SYSTEM).

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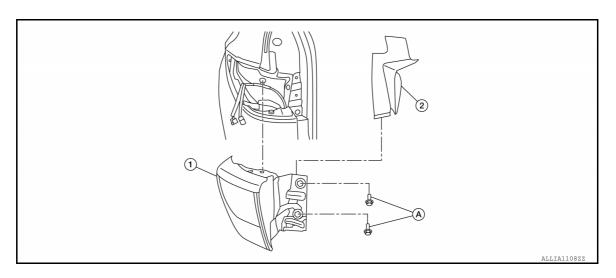
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## REAR COMBINATION LAMP

Exploded View



- 1. Rear combination lamp
- Rear combination lamp bolt cover A. Bolt

#### Removal and Installation

INFOID:0000000007914383

### REAR COMBINATION LAMP

#### Removal

- 1. Release metal clip and pawls using a suitable tool and remove rear combination lamp bolt cover.
- 2. Remove rear combination lamp bolts.
- Pull rear combination lamp rearward.
- 4. Disconnect the harness connector from the rear combination lamp and remove rear combination lamp.

#### Installation

Installation is in the reverse order of removal.

## **REAR TURN SIGNAL LAMP BULB**

#### WARNING

To prevent burns, do not touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF.

### **CAUTION:**

- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc.
  may affect the performance of the lamp. When replacing the bulb, be sure to replace it with a new
  one.

#### Removal

- Remove rear combination lamp.
- 2. Rotate the rear turn signal lamp socket counterclockwise and remove from rear combination lamp.
- 3. Remove the rear turn signal lamp bulb from the bulb socket.

#### Installation

## **HIGH-MOUNTED STOP LAMP**

< REMOVAL AND INSTALLATION >

[XENON TYPE]

# HIGH-MOUNTED STOP LAMP

# Removal and Installation

INFOID:0000000007914385

## **REMOVAL**

- 1. Remove rear spoiler. Refer to EXT-39, "Removal and Installation".
- 2. Remove high-mounted stop lamp nuts.
- 3. Disconnect the harness connector from the high-mounted stop lamp and remove.

## **INSTALLATION**

Installation is in the reverse order of removal.

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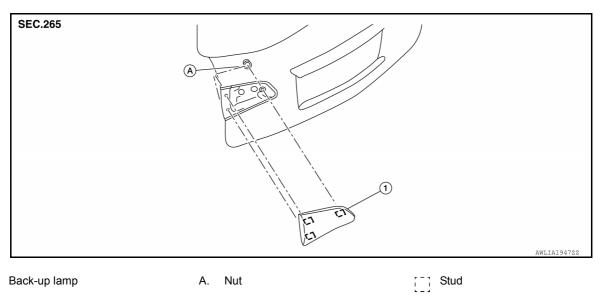
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## **BACK-UP LAMP**

Exploded View



## Removal and Installation

INFOID:0000000007914387

#### **BACK-UP LAMP**

#### Removal

- 1. Remove back door lower finisher. Refer to <a href="INT-34">INT-34</a>, "BACK DOOR FINISHER: Removal and Installation".
- Disconnect the harness connector from the back-up lamp.
- 3. Remove back-up lamp nuts, and then remove back-up lamp.

#### Installation

Installation is in the reverse order of removal.

### **BACK-UP LAMP BULB**

Removal

#### **WARNING:**

To prevent burns, do not touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned off.

#### **CAUTION:**

- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.
- 1. Remove back door trim. Refer to INT-34, "BACK DOOR FINISHER: Removal and Installation".
- 2. Disconnect the harness connector from the back-up lamp.
- 3. Rotate back-up lamp socket counterclockwise and remove.
- 4. Remove back-up lamp bulb from bulb socket.

#### Installation

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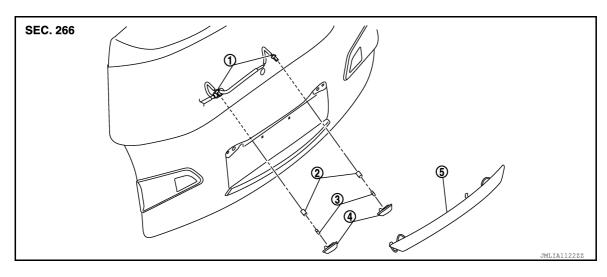
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## LICENSE PLATE LAMP

**Exploded View** INFOID:0000000007914389



- License plate lamp harness
- License plate lamp
- License plate lamp socket
- License plate lamp finisher
- License plate lamp bulb

## INFOID:0000000007914390

### Removal and Installation

### LICENSE PLATE LAMP

#### Removal

- Remove back door lower finisher. Refer to INT-34, "BACK DOOR FINISHER: Removal and Installation".
- Disconnect the harness connector from the license plate lamp.
- Release clips using a suitable tool and remove license plate lamp.

#### Installation

Installation is in the reverse order of removal.

### LICENSE PLATE LAMP BULB

Removal

#### **WARNING:**

To prevent burns, do not touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF.

### **CAUTION:**

- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of the lamp. When replacing the bulb, be sure to replace it with a new one.
- Remove back door lower finisher. Refer to INT-34, "BACK DOOR FINISHER: Removal and Installation".
- 2. Disconnect the harness connector from the license plate lamp.

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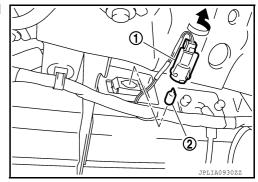
**EXL-171** Revision: March 2012 2013 Infiniti JX

## LICENSE PLATE LAMP

## < REMOVAL AND INSTALLATION >

[XENON TYPE]

- 3. Rotate license plate lamp socket (1) counterclockwise and remove.
- 4. Remove license plate lamp bulb (2) from bulb socket.



Installation

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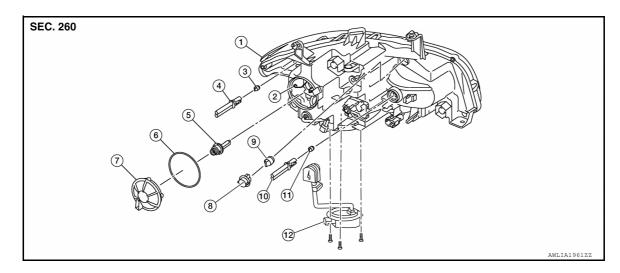
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# UNIT DISASSEMBLY AND ASSEMBLY

## FRONT COMBINATION LAMP

Exploded View



- 1. Front combination lamp
- 4. Side marker lamp socket
- 7. Plastic cover
- 10. Parking lamp socket
- 2. Retaining spring
- Xenon bulb
- 8. Front turn signal lamp socket
- 11. Parking lamp bulb

- 3. Side marker lamp bulb
- 6. Seal packing
- 9. Front turn signal lamp bulb
- 12. HID control unit and xenon bulb socket

# Disassembly and Assembly

DISASSEMBLY

#### **CAUTION:**

HID control unit and xenon bulb socket cannot be disassembled.

- 1. Rotate plastic cover counterclockwise and remove.
- 2. Rotate xenon bulb socket counterclockwise and remove.
- 3. Unlock retaining spring and remove xenon bulb.
- 4. Remove bumper bracket screws and bumper bracket.
- 5. Rotate parking lamp socket counterclockwise and remove.
- 6. Remove parking lamp bulb from parking lamp socket.
- 7. Rotate front turn signal lamp socket counterclockwise and remove.
- 8. Remove front turn signal lamp bulb from front turn signal lamp socket.
- 9. Rotate side marker lamp socket counterclockwise and remove.
- 10. Remove side marker lamp bulb from side marker lamp socket.

#### **ASSEMBLY**

Assembly is in the reverse order of disassembly.

#### **CAUTION:**

After installing the bulb, install the plastic cover and the bulb socket securely for watertightness.

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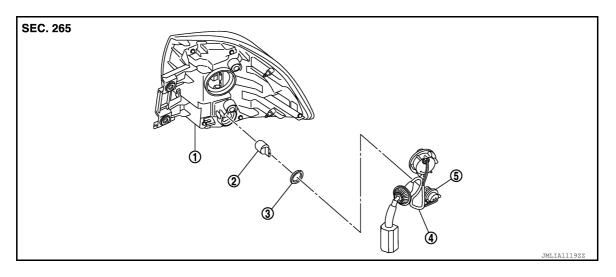
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Revision: March 2012 EXL-173 2013 Infiniti JX

# **REAR COMBINATION LAMP**

Exploded View



- 1. Rear combination lamp
- 2. Rear turn signal bulb
- 4. Rear combination lamp harness
- 5. Rear turn signal socket
- Rear turn signal socket seal

# Disassembly and Assembly

INFOID:0000000008317658

### **CAUTION:**

Disconnect the battery negative terminal or remove the fuse.

### DISASSEMBLY

- 1. Remove rear combination lamp. Refer to EXL-168, "Removal and Installation"
- 2. Rotate the rear turn signal lamp socket counterclockwise and remove.
- Remove the bulb from rear turn signal lamp socket.

## **ASSEMBLY**

Assembly is in the reverse order of disassembly.

# **SERVICE DATA AND SPECIFICATIONS (SDS)**

< SERVICE DATA AND SPECIFICATIONS (SDS)

[XENON TYPE]

INFOID:0000000007914392

# SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS)

**Bulb Specifications** 

Item		Wattage (W)
	Headlamp (HI/LO)	65/55
Front combination lamp	Front turn signal lamp	28
	Parking lamp	8
Front fog lamp		55
Rear combination lamp	Stop lamp/Tail lamp	_
	Rear turn signal lamp	18
	Side marker	3.8
Back-up lamp		12
License plate lamp		5
High-mounted stop lamp		_

<sup>\*:</sup> Always check with the Parts Department for the latest parts info.

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