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< PRECAUTION > [XENON TYPE]

PRECAUTION

PRECAUTIONS

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

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

General precautions for service operations

INFOID:0000000009752708

- Do not work with wet hands.
- The xenon headlamp system includes a high voltage generating part. Be sure to disconnect battery negative cable (negative terminal) or power fuse before removing, installing, or touching the xenon headlamp (including lamp bulb).
- Turn the lighting switch OFF before disconnecting and connecting the connector.
- When turning the xenon headlamp on and while it is illuminated, do not touch the harness, bulb, and socket of the headlamp.
- When checking the headlamp on/off operation, check it on vehicle and with the power connected to the vehicle-side connector.
- Do not touch the headlamp bulb glass surface with bare hands or allow oil or grease to get on it. Do not touch the headlamp bulb just after the headlamp is turned off, because it is very hot.
- Install the xenon headlamp bulb socket correctly. If it is installed improperly, high-voltage leak or corona discharge may occur that can melt the bulb, connector or housing. Do not illuminate the xenon headlamp bulb out of the headlamp housing. Doing so can cause fire and harm your eyes.
- When the bulb has burned out, wrap it in a thick vinyl bag and discard. Do not break the bulb.
- Leaving the bulb removed from the headlamp housing for a long period of time can deteriorate the performance of the lens and reflector (dirt, clouding). Always prepare a new bulb and have it on hand when replacing the bulb.
- When adjusting the headlamp aiming, turn the aiming adjustment screw only in the tightening direction. If it is necessary to loosen the screw, first fully loosen the screw, and then turn it in the tightening direction.
- Do not use organic solvent (paint thinner or gasoline) to clean lamps and to remove old sealant.



PRECAUTIONS

< PRECAUTION > [XENON TYPE]

Precaution for Work

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When removing or disassembling each component, be careful not to damage or deform it. If a component
may be subject to interference, be sure to protect it with a shop cloth.

- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oilv dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

< PREPARATION > [XENON TYPE]

PREPARATION

PREPARATION

Special Service Tool

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Tool number (Kent-Moore No.) Tool name		Description
— (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components

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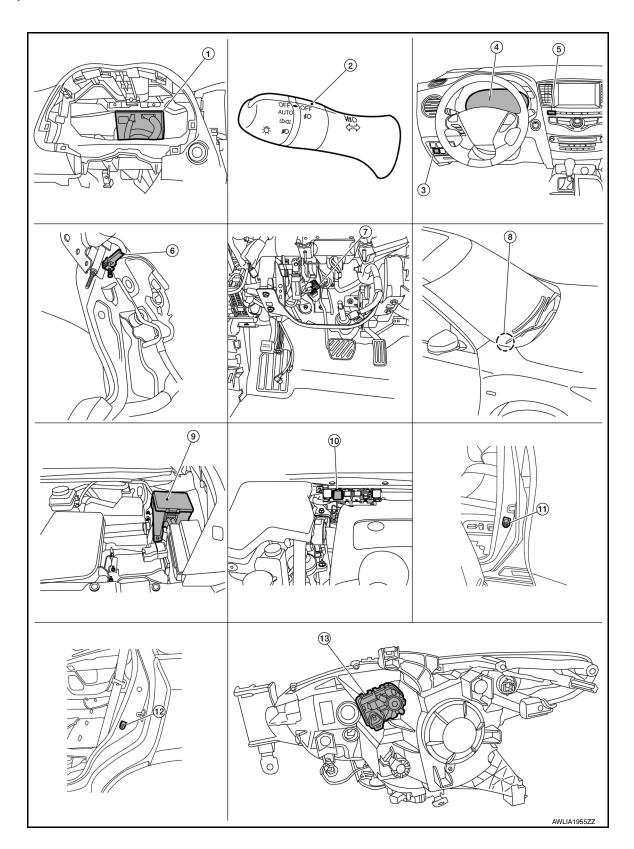
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

Revision: August 2013



2014 QX60

EXL-7

COMPONENT PARTS

[XENON TYPE]

< SYSTEM DESCRIPTION >

- BCM (view with combination meter removed)
- 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, Tail lamp relay)
- 12. Rear door switch LH (RH similar)

Component Description

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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 open signal to the DCM to energie the guitalight quotam
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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SYSTEM

HEADLAMP SYSTEM

HEADLAMP SYSTEM: System Diagram

INFOID:0000000009131887 В Combination switch reading function IPDM F/R Headlamp Combination CAN communication switch (lighting BCM Xenon bulb HEAD LAMP and turn •High beam HID contro signal switch) LOW RELAY unit) request signal Low beam HEAD LAMP High beam D request signal HIGH RELAY Combination Е meter High beam indicator lamp

HEADLAMP SYSTEM: System Description

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

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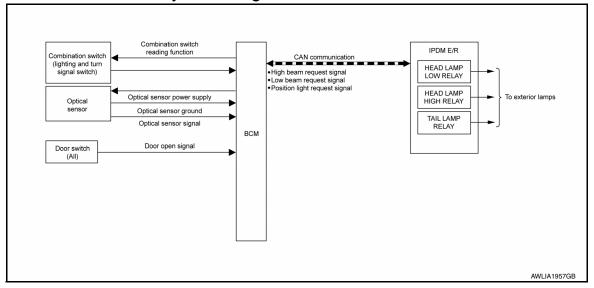
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AUTO LIGHT SYSTEM: System Diagram

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AUTO LIGHT SYSTEM: System Description

INFOID:0000000009131890

- 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

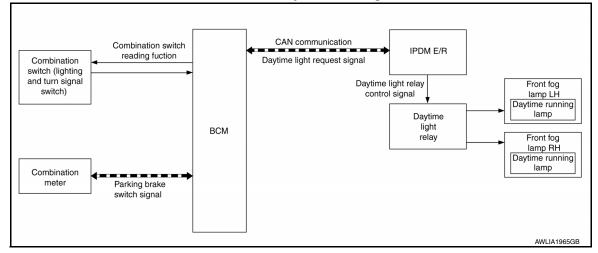
The auto light control system has an optical sensor that detects outside brightness.

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-17, "HEADLAMP: CONSULT Function (BCM - HEADLAMP)".

DAYTIME RUNNING LIGHT SYSTEM

DAYTIME RUNNING LIGHT SYSTEM: System Diagram

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DAYTIME RUNNING LIGHT SYSTEM: System Description

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System Description

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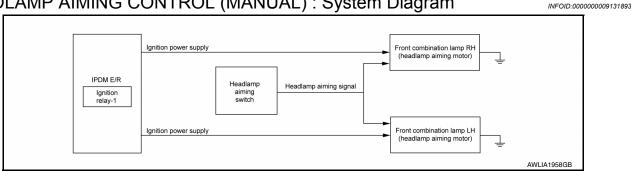
The daytime light system is equipped with a daytime light control that activates the daytime lights within the front fog lamp assembly when the engine is operating. If the parking brake is applied, the daytime lights will turn OFF. The daytime lights will turn ON when the parking brake is released.

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



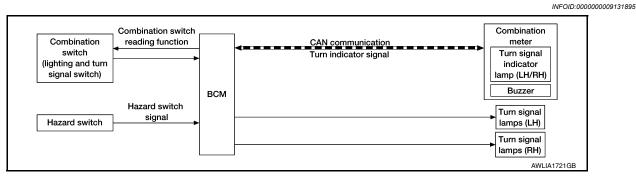
HEADLAMP AIMING CONTROL (MANUAL): System Description

INFOID:0000000009131894

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



TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description

INFOID:0000000009131896

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.

HAZARD LAMP OPERATION

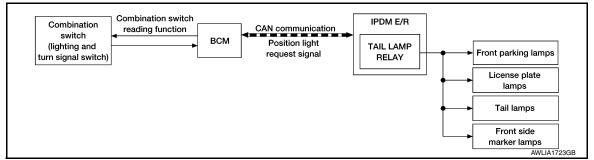
When the hazard switch is in the ON position, the BCM receives input requesting the hazard lamps illuminate. The BCM controls the turn signal power to both the LH and RH turn signal lamps. The BCM sends a hazard indicator signal ON request via the CAN communication lines to the combination meter. The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

EXL-11 **Revision: August 2013** 2014 QX60

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Di-

agram INFOID:0000000009131897



PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description INFOID:0000000009131898

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.

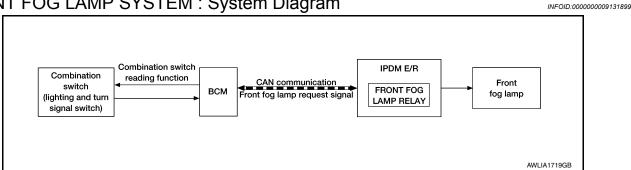
EXTERIOR LAMP BATTERY SAVER CONTROL

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



FRONT FOG LAMP SYSTEM: System Description

INFOID:0000000009131900

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

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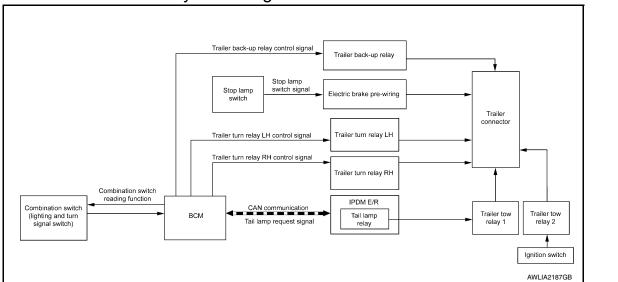
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TRAILER TOW SYSTEM: System Diagram



TRAILER TOW SYSTEM: System Description

INFOID:0000000009131902

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.

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:0000000009722230

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

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	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
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			×				

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				Direct D	Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

HEADLAMP

HEADLAMP: CONSULT Function (BCM - HEADLAMP)

INFOID:0000000009722231

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

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]		1		
TAIL LAMP SW [On/Off]		J		
HI BEAM SW [On/Off]				
HEAD LAMP SW 1 [On/Off]	Indicates condition of combination switch.	K		
HEAD LAMP SW 2 [On/Off]				
PASSING SW [On/Off]		EVI		
AUTO LIGHT SW [On/Off]		EXI		
FR FOG SW [On/Off]				
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	M		
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.	N		
DOOR SW-BK [On/Off]	Indicates condition of back door switch.			
OPTI SEN (DTCT) [V]	Indicates outside brightness voltage signal from optical sensor.	0		
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	MODE2*	Autolamp function ON.
	MODE1	Autolamp function OFF.
	MODE4	This mode is not used.
WIPER LINK	MODE3*	Wiper link function operates in INT, LOW and HI.
WIFERLINK	MODE2	Wiper link function operates in LOW and HI.
	MODE1	Wiper link function OFF.
CUSTOM A/LIGHT SETTING	MODE4	Less sensitive than normal setting (turns ON later).
	MODE3	More sensitive than MODE2.
	MODE2	More sensitive than normal setting (turns ON earlier).
	MODE1*	Normal setting.
	MODE 8	
	MODE 7	
	MODE 6	
ILL DELAY SET	MODE 4	Autoloma dolou timor
ILL DELAT SET	MODE 5	Autolamp delay timer.
	MODE 3	
	MODE 2	
1	MODE 1*	

^{* :} Initial setting

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000009722232

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

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 true circul function of combination quitab		
TURN SIGNAL L [On/Off]	Indicates condition of turn signal function of combination switch.		
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

INFOID:0000000009722233

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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-170</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)
- 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	Front fog lampsParking lampsSide marker lampsTail lampsLicense plate lamps	10 seconds	
3	Daytime running lamps	10 seconds	
4	Headlamps	LO ⇔ HI 5 times	
5	A/C compressor	ON ⇔ OFF 5 times	
6 [*]	Cooling fans	LO for 5 seconds → HI for 5 seconds	

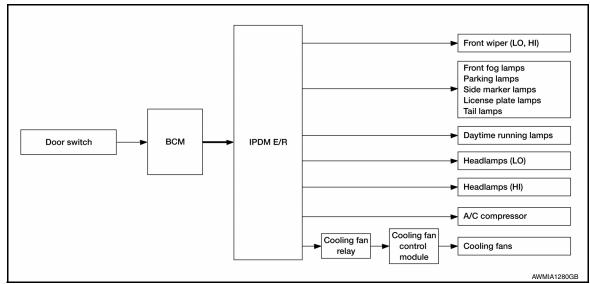
^{*:} Outputs duty ratio of 50% for 5 seconds → duty ratio of 100% for 5 seconds on the cooling fan control module.

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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
 Front fog lamps Parking lamps Side marker lamps License plate lamps Tail lamps Daytime running lamps Headlamp (HI, LO) Front wiper 	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 control module Cooling fan relay Harness or connectors between IPDM E/R and cooling fan relay IPDM E/R

CONSULT Function (IPDM E/R)

INFOID:0000000009722234

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

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APPLICATION ITEM

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

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-20, "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

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DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

Monitor Item [Unit]	Main Signals	Description
HORN CHIRP [On/Off]		Indicates horn reminder signal received from BCM on CAN communication line
HOOD SW 2 [On/Off]		Indicates condition of hood switch 2

ACTIVE TEST

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-23, "CAN Diagnostic Support Monitor".

BCM, IPDM E/R

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:0000000009131908	

ECU	Reference		
	BCS-29, "Reference Value"		
BCM	BCS-49, "Fail Safe"		
BCIVI	BCS-49, "DTC Inspection Priority Chart"		
	BCS-51, "DTC Index"		
	PCS-12, "Reference Value"		
IPDM E/R	PCS-19, "Fail Safe"		
	PCS-20, "DTC Index"		

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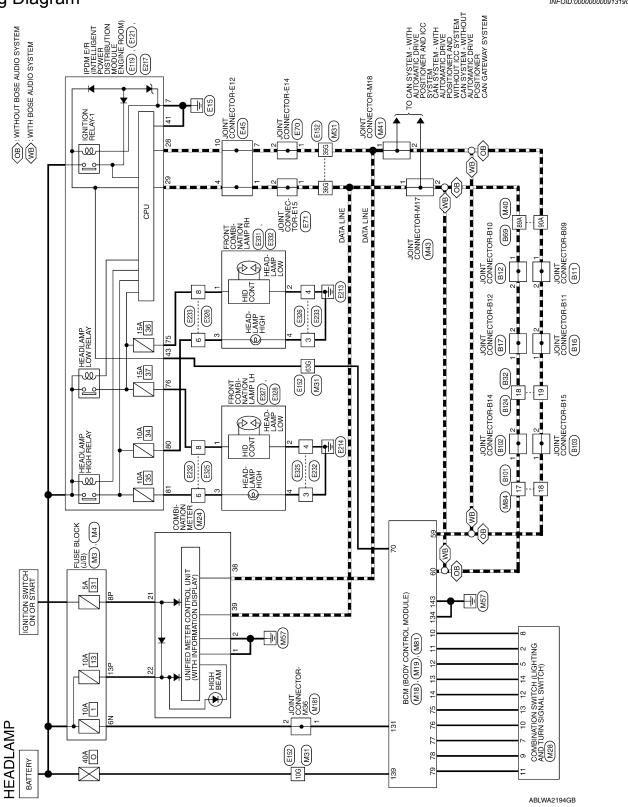
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[XENON TYPE] < WIRING DIAGRAM >

WIRING DIAGRAM

HEADLAMP

Wiring Diagram INFOID:0000000009131909



Connector Name COMBINATION METER

M24

Connector No.

Connector Color WHITE

CAN-H

CAN-L

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				22 21						
	Connector Name BCM (BODY CONTROL MODULE)	EN		8 7 6 5 4 3 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
M18	ne BCN MOE	or GRE	L	15 14 13 11	Solor of Wire	۵	۵	>	>	۵
Connector No.	Connector Nar	Connector Color GREEN	原 H.S.	20 19 18 17 16 15 14 13 12 11 10 9 40 39 38 37 36 35 34 33 32 31 30 29	Terminal No. Wire	10	£	12	13	14
Connector No. M4	Connector Name FUSE BLOCK (J/B) Connector Color WHITE		(17) 69 59 49 (27) 39 39 19 19 (18) (18) (18) (18) (18) (18) (18) (18)		Terminal No. Color of Signal Name	- BG -	13P W -			

Signal Name	CAN-L	CAN-H	IGN USM OUT 1	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Color of Wire	Ь	٦	۵	BG	Ь	Ь	>	8
Terminal No.	59	09	70	75	9/	77	78	79

Signal Name

Terminal No. Wire

GND2

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GND1

В В

Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK
H.S.	
60 59 58 57 56 55 54	55 54 53 52 51 50 49 48 47 46 45 44 43 42 41
27 27 77 78 78 78	75 74 73 72 71 70 69 68 67 66 65 64 63 62 61

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HEADLAMP CONNECTORS

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



Signal Name

Terminal No. N9

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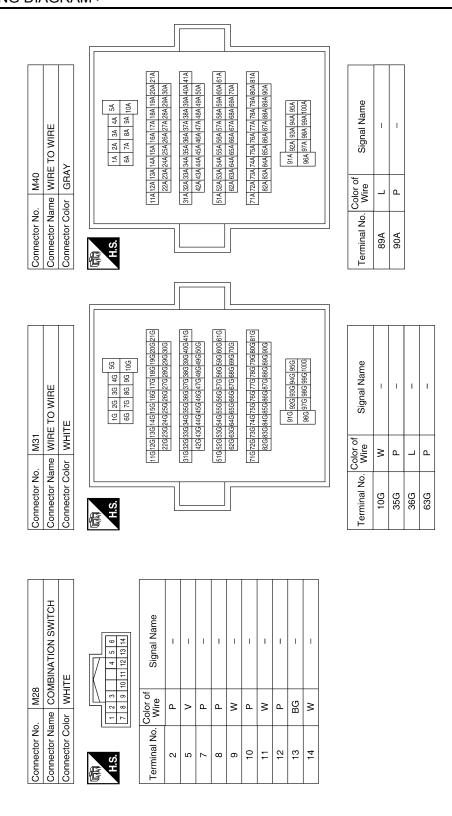
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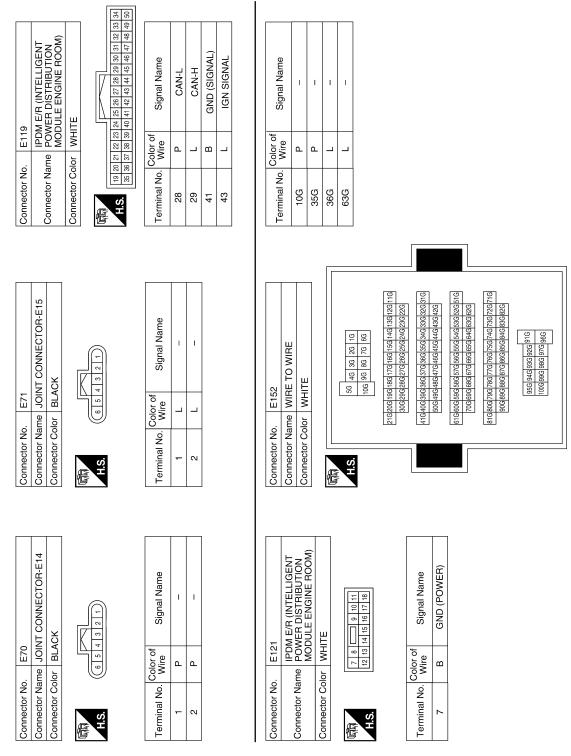
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Connector No. M43		SODY CONTROL	LE)		3 132 131 130 129 140 139 138	Signal Name	BAT BCM FUSE	GND2	BAT POWER F/L	GND1
Signal Name		e BCM (E	MODU	v WHITE	137 136 135 134 13 143 142 141	color of Wire	8	В	X	В
M43	Connector No.	Connector Nam		Connector Colc		Terminal No.	131	134	139	143
M43 Connector No. M43 Connector Name JOINT CONNECTOR-M17 Connector Color WHITE				7					1	
Connector No. M43 Connector Name JOIN Connector Color WHI LS H.S Terminal No. Wire 1 L 2 L		NT CONNECTOR-M17	TE			Signal Name	ı	1		
Connector No. Connector Col Connector Col Lis. Terminal No.	M43	ne JOIN	or WH		4	Color of Wire	_	٦		
	Connector No.	Connector Na	Connector Col		所 H.S.	Terminal No.	-	2		
	+	INT CONNECTOR-M18			4 3 2 1	f Signal Name	ı	1		
INT CONNECTOR-M18 INTE Signal Name		me JO	lor		4	Color of Wire	۵	Ь		
NT CONNEC	Connector No.	Connector Na	Connector Co.		原 H.S.	Terminal No. Wire	-	2		

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E23	ne WIF	or GR			Solor of Wire	В	В	8	œ
Connector No. E233	Connector Name WIRE TO WIRE	Connector Color GRAY	é	(中) H.S.	Terminal No. Wire	ဇ	4	9	8
32	Connector Name WIRE TO WIRE	ACK		2 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Signal Name	I	ı	ı	ı
. E232	me WIF	lor BL	_	4 ®	Color of Wire	В	В	G	ب
Connector No.	Connector Na	Connector Color BLACK	á	(可见 H.S.	Terminal No. Wire	က	4	9	8
								I	
7	M E/R (INTELLIGENT	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	ITE	75 76 78 79 80 81	Signal Name	HEADLAMP LO RH	HEADLAMP LO LH	HEADLAMP HI RH	HEADLAMP HI LH
. E217	IPD	ar MO MO	or WH	74 [77 72	Color of Wire	œ	٦	8	9
Connector No.	:	ector Nar	Connector Color WHITE	H.S.	rerminal No.	75	92	80	81

		\neg								
27	Connector Name FRONT COMBINATION	MP LH	ACK		(E) 4	Signal Name	ı	1		
. E327	me FF	\$	lor BL		9)	Color o Wire	G	В		
Connector No.	Connector Na		Connector Color BLACK		H.S.	Terminal No. Wire	3	4		
			7							
9	E TO WIRE			3 4	7 8	Signal Name	ı	ı	-	I
E326	ne WIR	or GR/			9	Solor of Wire	а	В	M	Œ
Connector No.	Connector Name WIRE TO WIRE	Connector Color GRAY			H.S.	Terminal No. Wire	က	4	9	8
			7				1			
2	E TO WIRE	S		8 4	8 7	Signal Name	ı	ı	1	ı
E32	ne WIR	or BLA			9 9	Color of Wire	В	В	В	٦
Connector No. E325	Connector Name WIRE TO WI	Connector Color BLACK			H.S.	Terminal No. Wire	က	4	9	8

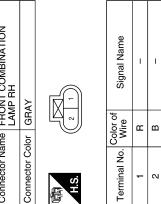


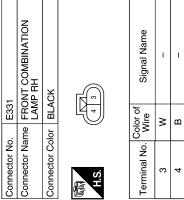
Signal Name	1	ı	1	I
Color of Wire	В	В	В	٦
Terminal No.	3	4	9	80

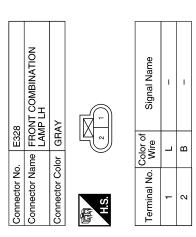
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E332	Connector Name FRONT COMBINATION LAMP RH	GRAY
Connector No.	Connector Name	Connector Color GRAY
	ATION	

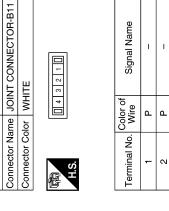


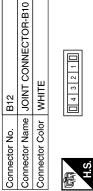


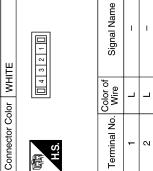




Connector No.	B16
Connector Name JOINT CONN	NOO INIOC
Connector Color	MHITE







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Signal Name	_	-
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Connector Name JOINT CONNECTOR-B09

Connector No. B11

Connector Color WHITE

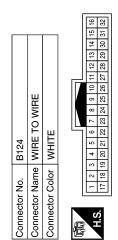




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Connector No. Connector Name Connector Color Terminal No. M. 17 17 18	Е
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Signal Name Signal Name Signal Name Signal Name	G
WIRE TO WIRE WHITE WHITE Or of Signal Name	Н
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Connector No. Connector Name Connector Name Connector No. Terminal No. B9A B9A B0A Regal Terminal No. Www. Terminal No. Www. Terminal No. Termin	J
	K
B17	EXL
Connector Name JOINT CONNECTOR-B12 Connector Color WHITE Terminal No. Wire Signal Name 1 L 2 L Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color GRAY 10A 9A 8A 7A 6A 5A 1A	M
Name JOIN OIN OI	Ν
Connector No. Connector No. Connector No. Connector No. Connector No. Connector Name Connector Name Connector Color H.S.	0
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HEADLAMP



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

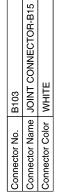








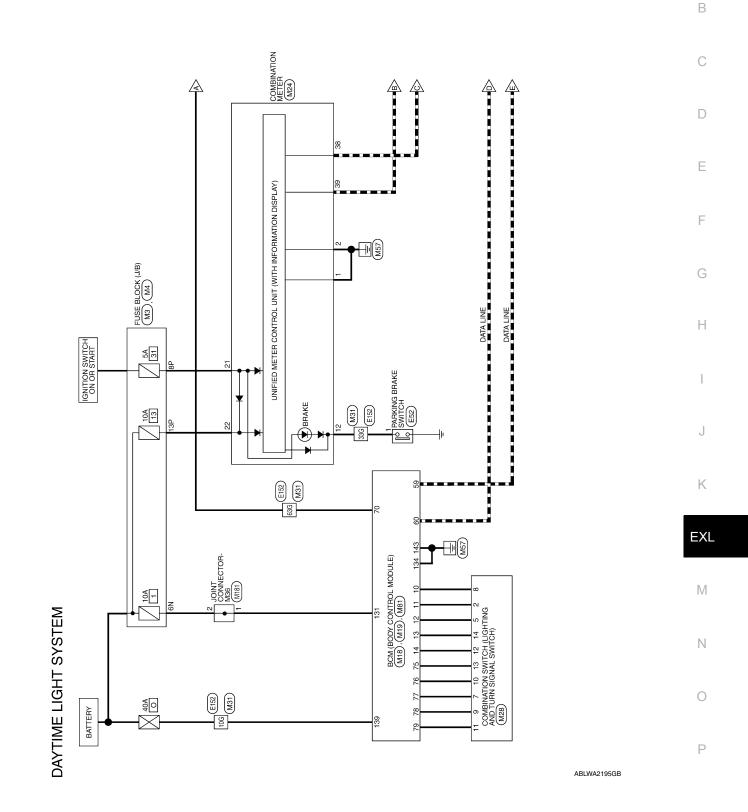


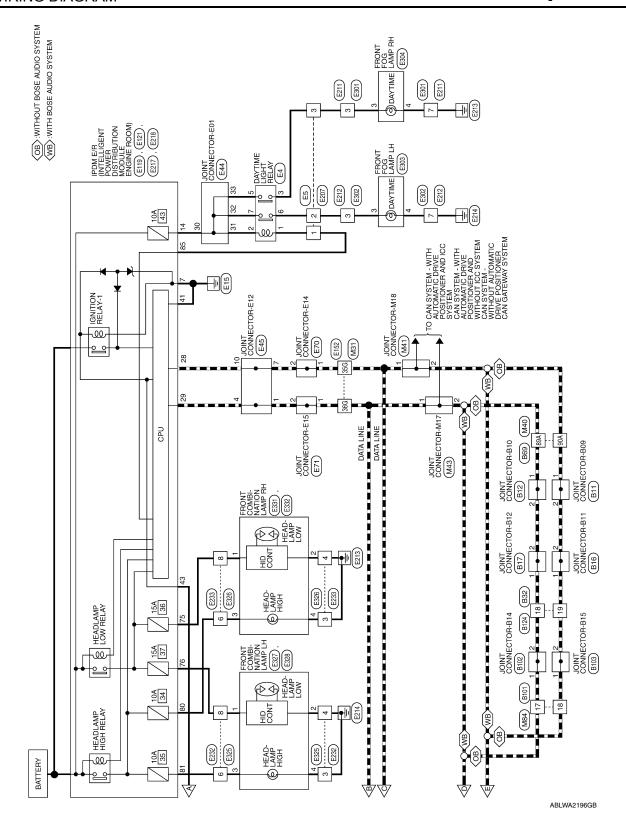
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DAYTIME LIGHT SYSTEM

Wiring Diagram





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BCM (BODY CONTROL MODULE)

Connector Name Connector Color

M18

Connector No.

GREEN

DAYTIME LIGHT SYSTEM CONNECTORS

\circ	0	- 11	
M4	Connector Name FUSE BLOCK (J/B)	WHITE	8P1 SP14P (3P12P11P10P 9P 8P
Connector No. M4	Connector Name	Connector Color WHITE	H.S.
M3	Connector Name FUSE BLOCK (J/B)	WHITE	3N
Connector No. M3	Connector Name	Connector Color WHITE	H.S.

COMBI SW IN 5 COMBI SW IN 4 COMBI SW IN 3 COMBI SW IN 2 COMBI SW IN 1

Signal Name

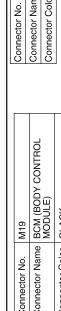
Color of Wire ݐ ₾ > ≥ а

Terminal No. 10 = 12 ξ+ 4

Signal Name

Terminal No. N9

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Connector No.	. M19		
Connector Name		BCM (BODY CONTROL MODULE)	
Connector Color		BLACK	
僵			
H.S.			
60 59 58 57 56	55 54 53	52 51 50 49 48 47 46 45 44 43 42	2 41
80 79 78 77 76	76 75 74 73 7	73 72 71 70 69 68 67 66 65 64 63 62	2 61
Terminal No.	Color of Wire	Signal Name	
59	Ь	CAN-L	
09	L	CAN-H	
20	Ь	IGN USM OUT 1	
75	BG	COMBI SW OUT 5	

1	4	9											
1	42	62	l۲										
1	43	63	Ш										
1	44	22	Ш					١.,	ا ـــ ا	_	ا ہ ا	_	
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1	46	99	Ш	лe			5	l≳	∣≳∣	$ \mathcal{L} $	∣≳∣	$ \gtrsim $	
1	47	67	Ш	Га	7-1	Ŧ	0	>	>	۸	>	\ 	
	8	89	Ш	Signal Name	CAN-L	CAN-H	IGN USM OUT 1	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1	
Τ	49	69	Ш	g	C	S	Š	丽	圖	В	圖	丽	
	20	78 77 76 75 74 73 72 71 70 69	Ш	S			Z.	∣≅	∣∑∣	\sim	≥	ĭ≅	
	51	7	Ш				=	8	8	S	႘	$^{\circ}$	
\	25	72	Iŀ										
ī	53	73	Ш	Color of Wire				۸,					
١	54	74	Ш	olor o Wire	Д	_	Ф	BG	ᅀ	Д	∣≥	≥	
	55	75	Ш	ر ا									
	26	76	П	0.									ı
١	27	77	Ш	z									
ıl	82	78	Ш	na	59	09	70	75	9/	77	78	79	
I	29	79	Ш	Ferminal No.	(1)	٥	-	'`	'~		'`	'	
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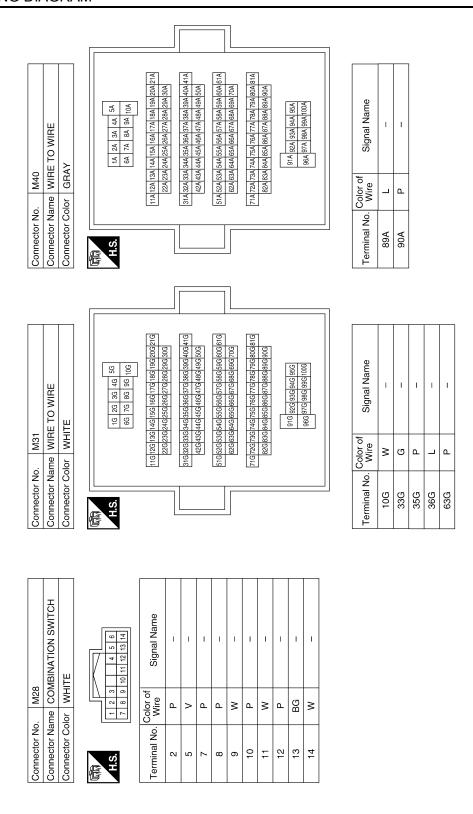
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Connector No.	M43		Connector No.	M81	
or Narr	NIOL 91	Connector Name JOINT CONNECTOR-M17	Connector Nar	ne BCN	Connector Name BCM (BODY CONTROL
or Colo	Connector Color WHITE	1			JOLE)
			Connector Color WHITE	or WH	TE
	4	3 2 1	赋 H.S.	137 136 135 1	[137] 142 142 143 138 138 138
Color of Wire	color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
	٦	1	131	>	BAT BCM FUSE
	_	ı	134	В	GND2
			139	>	BAT POWER F/L
			143	В	GND1

4 3 2 1	4
Signal Name	Terminal No. Wire
	۵
	۵

Connector No. M41
Connector Name JOINT CONNECTOR-M18

Connector No.	E4	
Connector Name		DAYTIME LIGHT RELAY
Connector Color		BROWN
原列 H.S.		2 2 4 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Terminal No.	Color of Wire	Signal Name
-	>	ı
2	LG	I
3	BR	1
5	>	ı
9	SB	ı
1	>	

=	JOINT CONNECTOR-M36	ITE	3 2 1	Signal Name	ı	-
M181		or WHITE	4	Color of Wire	W	M
Connector No.	Connector Name	Connector Color	引 H.S.	Terminal No.	1	2

			2 1 18 17			
	WIRE TO WIRE	ITE	15 14 13 12 11 10 9 8 7 6 5 4 3 2 2 130 19 18 18 18 18 18 18 18 18 18 18 18 18 18	Signal Name	1	_
. M84	me WIF	lor WF	15 14 13 1	Color of Wire	_	Ь
Connector No.	Connector Name	Connector Color WHITE	(所) H.S.	Terminal No.	17	18

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Connector No. E5 Connector Name WIRE TO WIRE Connector Color WHITE	E5 WIRE T	IE TO WIRE	Conr	Connector No. Connector Name	me JOINT C	Connector No. E44 Connector Name JOINT CONNECTOR-E01 Connector Color WHITE	Connector No. Connector Name Connector Color	E45 JOINT BLUE	Connector No. E45 Connector Name JOINT CONNECTOR-E12 Connector Color BLUE	
H.S.	8 9 10 1	11 12 13 14 15 16 7	T T	H.S.	22 21 20 19 33 32 31 30	7 6 5 4 3 2 1	H.S. [12 11 10 9	00 00 00 00 00 00 00 00 00 00 00 00 00	6 5 4 4 3 2 2 1	
Terminal No. 1	Color of Wire	Signal Name	Terr	Terminal No.	Color of Wire	Signal Name	Terminal No. Co	Color of Wire L	Signal Name	
α e	SB BR	1 1		31	S >	1 1	4 2		1 1	
	1			33	>	1	10	. a	1	
Connector No. Connector Name Connector Color		E52 PARKING BRAKE SWITCH BLACK	Con	Connector No. Connector Name Connector Color		E70 JOINT CONNECTOR-E14 BLACK	Connector No. Connector Name Connector Color	E71 JOINT (Connector No. E71 Connector Name JOINT CONNECTOR-E15 Connector Color BLACK	
哥 H.S.			H.S.	ь	6 5 4	3 7 2 1	明 H.S.	6 4 8	2 1	
Terminal No.	Color of Wire	Signal Name	Tem	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	
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		Connector No. E207
POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE 7 8 9 10 11 12 13 14 15 16 17 18	Signal Name GND (POWER) DTRL	Signal Name
	Color of Wire B	Color of Wire P LG L
Connector No. Connector Name Connector Color	Terminal No. 7	Terminal No. 10G 33G 35G 36G 63G
Name	Signal Name CAN-L CAN-H GAND (SIGNAL) IGN SIGNAL	E152 WIRE TO WIRE 100 90 80 70 60 100 90 90 90 90 90 90 90
	Color of Wire P P B B B L L	100 100
Connector No. Connector Name Connector Color Island 21 H.S. Island 21 H.S.	Terminal No. 28 29 41 41	Connector No. E152 Connector Name WIRE TO WIRE Connector Color WHITE 106 96 46 36 26 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 86 76 106 96 96 96 96 96 96 96 96 976 106 96 96 976 106 96 96 976 106 96 976 976 976 106 976 976 976 976 976 107 976 976 976 976 976 976 976 976 976 97

Revision: August 2013 EXL-37 2014 QX60

Connector No. E211	Connector No.	E212	Connector No.	E217	
Connector Name WIRE TO WIRE Connector Color GRAY	Connector Name M	WIRE TO WIRE GRAY	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	
H.S. (5 6 7 8)	H.S.	1	Connector Color 原動 H.S.	7 WHITE	
Terminal No. Color of Signal Name 3 R - 7 B	Terminal No. Wire 3 P 7 B	of Signal Name –	Terminal No. 75 76 80 81	Color of Signal Name R HEADLAMP LO RH L HEADLAMP LO LH W HEADLAMP HI RH G HEADLAMP HI LH	
	Connector No. Connector Name V Connector Color	E232 WIRE TO WIRE BLACK	Connector No. Connector Name Connector Color	E233 B WIRE TO WIRE C GRAY	
(本)	H.S.	1	赋 H.S.	4 ® F S S S S S S S S S S S S S S S S S S	
Terminal No. Wire Signal Name	Terminal No. Wire	of Signal Name	Terminal No.	Color of Signal Name	
85 P DTRL RLY	3 B	1	3	- В	
	4 B	1	4	ı B	
	9	1	9	- М	
	8	ı	8	1	_

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03	Connector Name FRONT FOG LAMP LH	AAY	(1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Signal Name	I	I
E303	ne FR	or GF	_	Color o Wire	rg Pg	В
Connector No.	Connector Nar	Connector Color GRAY	所 H.S.	Terminal No. Wire	က	4
	TO WIRE	,	<u> </u>	Signal Name	ı	ı
E302	e WIRE	r GRA	8 7 8 8 7 8	color of Wire	ro P	В
Connector No.	Connector Name WIRE TO WIRE	Connector Color GRAY	H.S.	Terminal No. Wire	ဇ	7
E301	WIRE TO WIRE	hAY	2 2 2 2 2 2 2 2 2 2	of Signal Name	I	ı
	or Name M	or Color GRAY	4 8	Color of Wire	LG	В
tor No.	tor N	for C		al No.		

	VIRE			Signal Name	1	1	1	1
E326	e WIRE TO ∖	r GRAY	- r2 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Color of Wire Si	В	В	×	<u> </u>
Connector No.	Connector Name WIRE TO WIRE	Connector Color	原 H.S.	Terminal No.	8	4	9	8

	_		1		_	_		
5	WIRE TO WIRE	BLACK	2 2 8 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name	ı	_	_	-
. E325			2 - 2	Color of Wire	В	В	5	ب
Connector No.	Connector Name	Connector Color	(南) H.S.	Terminal No.	3	4	9	8

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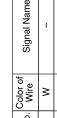
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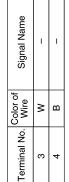
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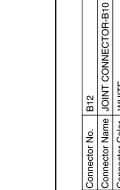
Connector No.	E331
Connector Name	Connector Name FRONT COMBINATION LAMP RH
Connector Color BLACK	BLACK

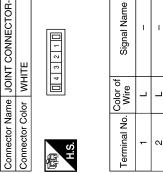


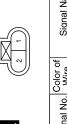




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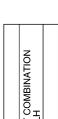






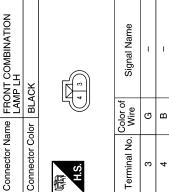
Signal Nar	1	1
Color of Wire	٦	В
Terminal No.	1	2

Connector No. B11 Connector Name JOINT CONNECTOR-B09 Connector Color WHITE H.S.	Terminal No Mana
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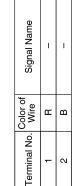
E327

Connector No.



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





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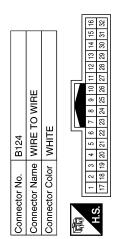


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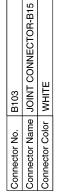
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Connector No. B32 Connector Name WIRE TO WIRE Connector Color WHITE Connector Name WIRE TO WIRE Connector Color of Signal Name To Terminal No. Wire Signal Name To To To To To To To T	B C D E
Connector No. B17	G H I
Connector No. B16	K EXL M N



Signal Name	_	_
Color of Wire	Γ	Ь
Terminal No.	18	19







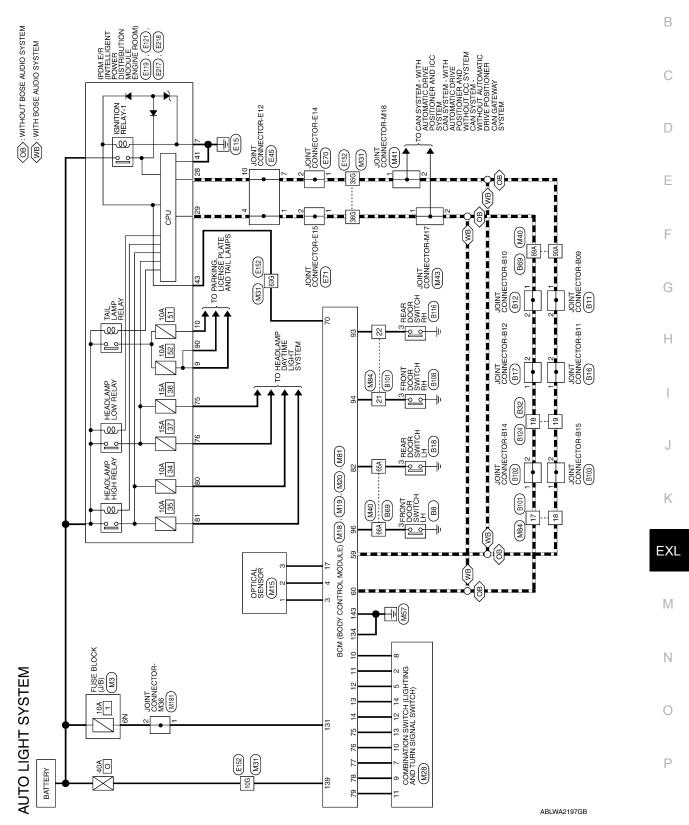
B102	Connector Name JOINT CONNECTOR-B14	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

2 2 1	Signal Name	1
	Color of Wire	٦
H.S.	Terminal No.	-

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AUTO LIGHT SYSTEM

Wiring Diagram



GND RF A/L

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AS DOOR SW DR DOOR SW

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RL DOOR SW RR DOOR SW

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BCM (BODY CONTROL MODULE)

Connector Name Connector Color

OPTICAL SENSOR

Connector Name Connector No.

M15

Connector Color | WHITE

M18

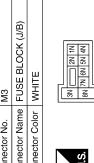
Connector No.

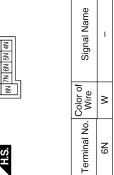
GREEN

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AUTO LIGHT SYSTEM CONNECTORS

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





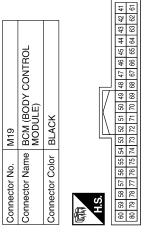
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-	7										
3 2	40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21			>							ſ
4	24			A/L POWER SUPPLY 5V							l
2	25		d)	7	١,	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	_	l
9	56		Ĕ	즉	Ĭ	٧ ا	=		=	=	l
7	27		Signal Name	S	A/L SIGNAL	SV	S	SV	S	COMBI SW IN 1	l
8	78		na	H	S	IBI	圓	IBI	壐	圓	l
6	53		Sig	∣≷	₹	O	8	8	8	8	l
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15	35		Ö≤	-							l
20 19 18 17 16 15 14 13 12 11 10 9	98		Terminal No. Wire								ŀ
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<u> </u>	39		ern								l
2(4		≝_								L
			Signal Name	1	ı	1					
			Color of Wire	>	ŋ	Я					

Signal Name	1	1	I	
Color of Wire	×	g	В	
Terminal No.	1	2	3	

Signal Name	ı	
Color of Wire	>	
rminal No.	N9	

M20	Connector Name BCM (BODY CONTROL MODULE)	ır GRAY		92 91 90 89 88 87 86 85 84 83 82 81	104 103 102 101 100 99 98 97 96 95 94 93	Color of Signal Name
Connector No.	Connector Nam	Connector Color GRAY	E		104 10	Terminal No

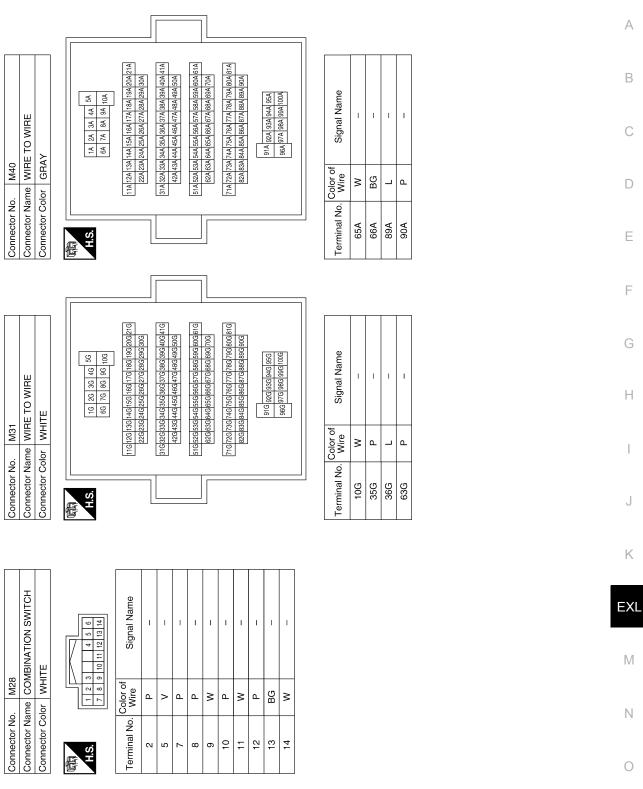
Signal Name	CAN-L	CAN-H	IGN USM OUT 1	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Color of Wire	۵	Г	Ь	BG	۵	۵	M	>
minal No.	29	09	20	75	92	77	78	79



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AUTO LIGHT SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

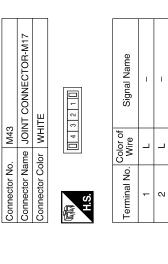


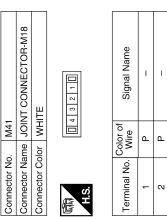
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	Connector No. M81	M81
ECTOR-M17	Connector Name	Connector Name BCM (BODY CONTROL MODULE)
	Connector Color WHITE	WHITE
		माउठ।उड़ी उड़ी उड़ी उड़ी उड़ी उड़ी उड़ी उड़ी

H.S. (Color of 143 Wire 134 B 143 B 143 B	134 130 130 138 141 140 139 138	Signal Name	BAT BCM FUSE	GND2	BAT POWER F/L	GND1
H.S. Terminal No. 131 134 139 143		Color of Wire	×	В	M	В
	明.S.	Terminal No.	131	134	139	143





Connector No.	. E45	
Connector Name	IMe JOI	JOINT CONNECTOR-E12
Connector Color	lor BLUE	JE
E		
H.S.	12 11 10 9	8 7 6 5 4 3 2 1
Terminal No.	Color of Wire	Signal Name
-	٦	I
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Connector Name	2	_
		JOINT CONNECTOR-M36
Connector Color WHITE	M M	ITE
是 H.S.	4	3 2 1
Terminal No.	Color of Wire	Signal Name
1	8	ı
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			2 1	18 17					
			7 6 5 4 3	23 22 21 20 19	Name				
-	RE TO WIRE	ITE	11 10 9 8	26 25 24	Signal Name	1	ı	ı	ı
. M84	me WIF	lor WH	16 15 14 13 12	32 31 30 29 28 27	Color of Wire	_	۵	g	œ
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	L C	6 6 7	Terminal No.	17	18	21	22

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E119 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODILI F FNGINF ROOM)	TE T	19 0 0 1 22 2 2 2 2 4 2 5 6 1 2 2 8 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Signal Name	CAN-L	CAN-H	GND (SIGNAL)	יפוא סומואר	:	Signal Name	1 1	1	1								
	lor WHITE	20 21 22 23 36 37 38 39	Color of Wire	۵	٦	В -	_	Color of	Wire	ם	. _									
Connector No.	Connector Color	H.S.	Terminal No.	28	59	41	?		ġ	10G	36G	63G								
											F]
TOR-E15		ame										В	g	14G13G12G11G 24G23G22G	346336326316	44G 43G 42G	54G53G52G51G 64G63G62G	74G73G72G71G 84G83G82G	5 8 5	
E71 JOINT CONNECTOR-E15 BLACK	4 3 2 1	emeN legis		1				25	RE TO WIRE	===		56 46 36 26 16	10G 9G 8G 7G 6G	21G20G19G18G17G16G15G14G13G12G11G 30G29G28G27G26G25G24G23G22G	416406 396 386 376 366 356 346 336 326 316	50G49G48G47G46G45G44G43G42G	61 G 60 G 59 G 58 G 57 G 56 G 55 G 54 G 53 G 52 G 51 G 70 G 69 G 68 G 67 G 66 G 65 G 64 G 63 G 62 G	81G 80G 79G 78G 77G 76G 75G 74G 73G 72G 71G 90G 89G 85G 87G 86G 85G 84G 83G 82G	95G 94G 93G 92G 91G 100G 99G 98G 97G 96G	
	9	Color of		_). E152	ame WIF	olor WHITE				21G20G1	4164063	50G	61G 60G 5	81G80G7		
Connector No. Connector Name Connector Color	原 H.S.	Terminal No	-	2				Connector No.	Connector Name WIRE TO WIRE	Connector Color	E	H.S.								
	_																			
E70 JOINT CONNECTOR-E14 BLACK	3 2 1	Signal Name	-	_					E/R (INTELLIGENT	POWER DISTRIBUTION MODULE ENGINE ROOM)	ш	9 10 11	12 13 14 15 16 17 18	Signal Name	GND (POWER)	TAIL RH	TAIL LH			
-	6 5 4	Color of	wire P	В				E121			or WHITE	7 8	12 13 14	Color of Wire	В	G	_			
Connector No. Connector Name Connector Color	ffin H.S.	Terminal No		2				Connector No.		Connector Name	Connector Color		H.S.	Terminal No.	7	6	10			

Revision: August 2013 EXL-47 2014 QX60

Connector No.	. E218	80	Connector No.	B8	
onnector Naı	me POV	Connector Name POWER DISTRIBUTION MODILI F FNGINF ROOM)	Connector Name FRONT Connector Color WHITE	Connector Name FRONT DOOR SWITCH LH Connector Color WHITE	SWITCH LH
Connector Color WHITE	lor WHI	TE	ą		
H.S.	90 81 84	90 91 92 93 94 95 98 97	H.S.	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	olor of Signal Name	lame
06	P	CLEARANCE	ю	-	

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

E217

WHITE

Connector Color Connector Name Connector No.

HEADLAMP LO RH HEADLAMP LO LH HEADLAMP HI RH HEADLAMP HI LH

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Signal Name

Terminal No.

Sonnector No. B16	Connector Name JOINT CONNECTOR-B11	Connector Color WHITE		Color of Signal Name Signal Name	1 P –	2 P –
Conne	Conne	Conne	H.S.	Termi		
2	Connector Name JOINT CONNECTOR-B10	НТЕ	4 3 2 1 1	Signal Name	-	ı
. B12	me JO	lor WF	4	Color of Wire		7
Connector No. B12	Connector Na	Connector Color WHITE	赋引 H.S.	Terminal No. Wire	1	2
	NT CONNECTOR-B09	IITE	3 2 1 0	Signal Name	-	ı
B11	me JOII	or WH	4	Color of Wire	Ь	Д
Connector No. B1	Connector Name JOINT (Connector Color WHITE	(南) H.S.	Terminal No. Wire	1	2
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Vame	No. B101 Name WIRE TO WIRE Color WHITE Tolor of Signal Name L L L L L L L L L L L L L L L L L L	В
Signal Name Signal Name	Connector No. B101 Connector Name WIRE TO WIRE Connector Color WHITE 2 3 4 5 6 7 8 9 10 11 11 11 12 21 22 24 25 28 27 27 27 27 27 27 27	С
No. B32 Color WHITE Color WHITE 16 15 14 13 12 11 22 31 30 23 26 27 Wire L	No. B101 Name WIRE Color of MHIT LG LG LG	D
Connector Name Connector Color Connector Color H.S. [16 15 1 Reminal No. Volume 18	Connector No. Connector Name Connector Color Terminal No. (Color) 17 18 18 21 22	Е
		F
ате	gue la	G
R DOOR SWITC!	Signal Name	Н
iolor WHIT	Color of SB SB SB P P P P P P P P P P P P P P P	I
Connector No. B18 Connector Name REAR DOOR SWITCH LH Connector Color WHITE H.S. Terminal No. Wire Signal Name 3 SB -	65A 66A 89A 90A	J
		K
CTOR-B12	B69	EXL
NT CONNECTOR. ITE Signal Name	RAY	M
Connector No. B17	Connector No. B69 Connector Name WIRE TO WIRE Connector Color GRAY 10A 9A 8A 7A 6 10A 89A 88A 7A 8A 8A 7A 6 10A 89A 88A 8A 7A 8A	N
Connector No. Connector Color Connector Color H.S. Terminal No. W	Connector No. Connector Color H.S. (41A	0
	ABLIA4980GB	

Connector No. B108	Connector Name FRONT DOOR SWITCH F	Connector Color WHITE	H.S. (1 2 3 4	Terminal No. Wire Signal Name	3 LG –	
connector No. B103	connector Name JOINT CONNECTOR-B15	Connector Color WHITE)	Terminal No. Wire Signal Name	- П	2 P -
B102 C	T CONNECTOR-B14	Э.	[] 4 3 2 1 1 [] H.	Signal Name		
Connector No.	Connector Name JOIN	Connector Color WHIT	原 H.S.	Terminal No. Wire	1	2

Connector No.	B124	14	
Connector Name WIRE TO WIRE	ıme WIF	RE TO WIRE	
Connector Color WHITE	lor WH	IITE	
-	2 3 4 5	6 7 8 9 10 11 12 13 14 15 16	
+	18 19 20 27	18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	_
			1
Terminal No.	Color of Wire	Signal Name	
18	٦	ı	
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2 3 4	Signal Name	1
	Color of Wire	ГG
原面 H.S.	Terminal No.	3

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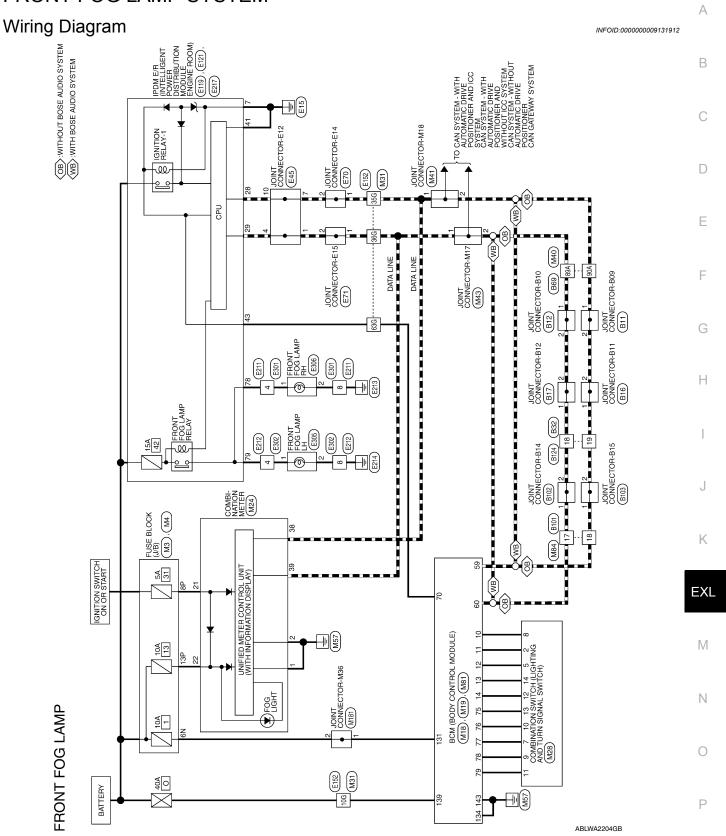
Connector Name REAR DOOR SWITCH RH

B116

Connector No.

Connector Color WHITE

FRONT FOG LAMP SYSTEM



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BCM (BODY CONTROL MODULE)

Connector Name Connector Color

Connector Name FUSE BLOCK (J/B)

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Connector No.

Connector Color | WHITE

M18

Connector No.

GREEN

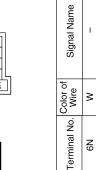
FRONT FOG LAMP CONNECTORS











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20 19 18 17 16 15 14 13 12 11 10	15 14 13	12 11 10 9 8 7 6 5 4 3 2 1
40 39 38 37 36	35 34 33	36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21
Terminal No. Wire	Color of Wire	Signal Name
10	۵	COMBI SW IN 5
Ξ	۵	COMBI SW IN 4
12	>	COMBI SW IN 3
13	>	COMBI SW IN 2
41	۵	COMBI SW IN 1

Signal Name

Terminal No.

BG ≥

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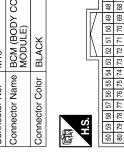
	M24	<u>.</u>	Connector No. M24
COMBI	_		14
COMBI	≥		13
COMBI	>		12
COMBI	Д		11

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

	-	21				
	2	22				_
		23				
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	6 5 4 3	25				
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	8	40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21		Signal Name	GND1	CUIND
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W	10	30		S.		
- 11	Ξ	31				
$\parallel \parallel \setminus$	12	32				L
	13	33		Color of Wire		
	4	34		ਫ਼ੵਫ਼	ω	ıα
	15	35		Color o Wire		
	16	36		Terminal No.		
	17	37		=		
-	48	38		<u>_</u>	-	٥
H.S.	19	39		€		
4	8	40		<u>e</u>		
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Signal Name	CAN-L	CAN-H	IGN USM OUT 1	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Color of Wire	Ь	_	۵	BG	Ь	Ь	M	8
Terminal No.	59	09	70	75	92	2.2	78	79

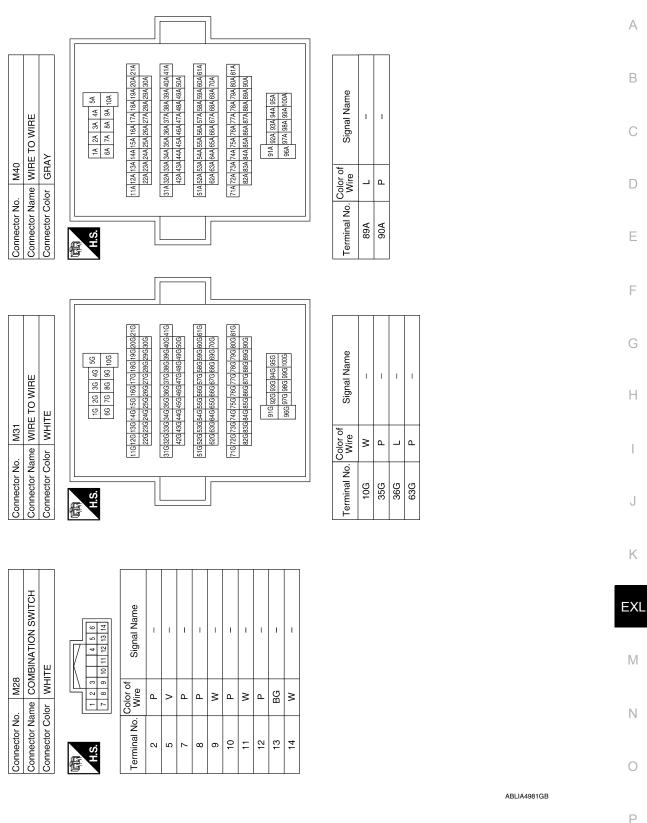
Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK



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FRONT FOG LAMP SYSTEM

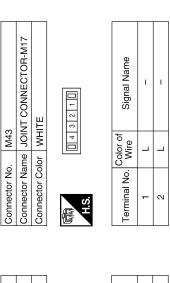
< WIRING DIAGRAM > [XENON TYPE]

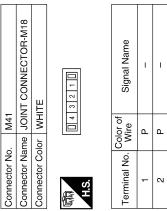


Revision: August 2013 EXL-53 2014 QX60

	Connector No. M81	M81
CTOR-M17	Connector Name	Connector Name BCM (BODY CONTROL MODULE)
	Connector Color WHITE	WHITE

	_	
Connector Na	me BCr MO	Connector Name BCM (BODY CONTROL MODULE)
Connector Color WHITE	lor WH	ITE
南南 H.S.	143 142	[127 128 128 134 128 138 138
Terminal No.	Color of Wire	Signal Name
131	Μ	BAT BCM FUSE
134	В	GND2
139	Μ	BAT POWER F/L
143	В	GND1





Connector No.). E45	
Connector Name		JOINT CONNECTOR-E12
Connector Color	olor BLUE	JE
H.S.	11 10 9	8 7 6 5 4 3 2 1
Terminal No.	Color of Wire	Signal Name
-	٦	ı
4	٦	-
7	Ь	-
10	Ь	ı

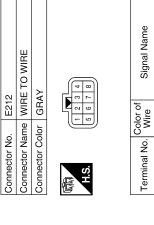
11	JOINT CONNECTOR-M36	ITE	4 3 2 1 0	Signal Name	I	=
. M181		lor WH	4	Color of Wire	*	Μ
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No.	1	٥

			2 1 18 17 17			
	WIRE TO WIRE	ITE	25 24 23 22 21 20 19	Signal Name	ı	_
. M84	me WIF	lor WH	32 31 30 29 28 27 26	Color of Wire	_	۵
Connector No.	Connector Name	Connector Color WHITE	H.S. 32	Terminal No.	17	18

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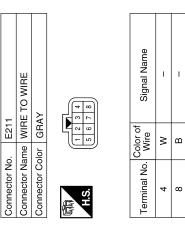
8.03 8.03		А
r No. E119 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Color WHITE	Signal Name CAN-L CAN-H GND (SIGNAL) IGN SIGNAL	В
IPDM E MODULE OF WHITE	Color of Wire P P P P P P P P P P P P P P P P P P P	D
Connector No. Connector Name Connector Color H.S.	Terminal No. 28 29 41 43 10G 35G 36G 63G	Е
		F
OR-E15		C
E71 JOINT CONNECTOR-E15 BLACK	Color of Signal Name	H
	Color of L L L L L L L L L	I
Connector No. Connector Color Connector Color H.S.	Connector No. Connector No. Connector Name Connector Color H.S. #16	J
		k
CONNECTOR-E14	er of fire Signal Name P	EX
ior BLACK		
Connector No. E70 Connector Name JOINT CONNECT Connector Color BLACK H.S.	Connector No. Connector Name Connector Color Terminal No. Vo. 7	C
	ABLIA4637GB	
		[

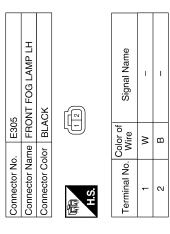
74 7 78 79 80 81	Signal Name	FR FOG LAMP RH	FR FOG LAMP LH
74 77	Color of Wire	≥	T
H.S.	Terminal No.	28	62



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2	RE TO WIRE	AY	2 1 1 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name	I	ı
. E302	me WIF	lor GR	8 4 3	Color of Wire	8	<u>~</u>
Connector No.	Connector Name WIRE TO WIRE	Connector Color GRAY	H.S.	Terminal No. Wire	4	8

1	RE TO WIRE	٨٧	2 8 2 1 8 5 2 1	Signal Name	I	-
. E301	me WIF	lor GRAY	8 4 3	Color of Wire	>	В
Connector No.	Connector Name WIRE TO WIRE	Connector Color	原. H.S.	Terminal No.	4	8

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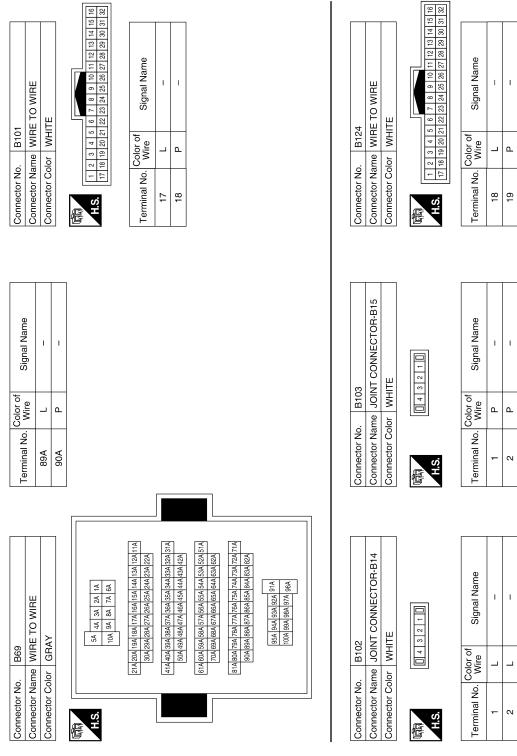
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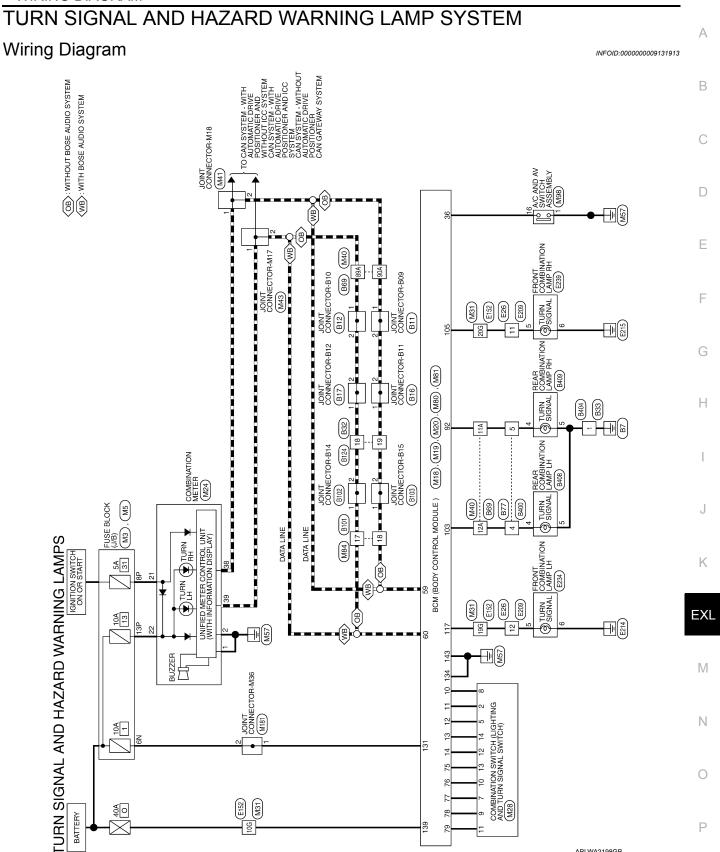
Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color WHITE	INS.	Terminal No. Wire Signal Name	-	2 L –	Connector No. B32 Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Color of Signal Name	18 L –	19 P –
Connector No. B11 Connector Name JOINT CONNECTOR-B09 Connector Color WHITE	(A) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Terminal No. Wire Signal Name	- П	2 P –	Connector No. B17 Connector Name JOINT CONNECTOR-B12	Connector Color WHITE	(南) H.S.	Terminal No. Color of Signal Name	1 L –	2 L –
r No. E306 r Name FRONT FOG LAMP RH		Color of Signal Name	- M	- В	r No. B16	r Color WHITE		No. Wire Signal Name	- L	

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Revision: August 2013 EXL-57 2014 QX60



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CAN-L

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BG

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TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS

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

ector No.	M3
ector Name	ector Name FUSE BLOCK (J/B)
ector Color WHITE	WHITE
	3N

tor Na tor Cc	
Connector Na Connector Co H.S.	8P
Connector Name FUSE BLOCK (J/B) Connector Color WHITE ALS. RINTNEW SNI 1N SIGNAL Name Terminal No. Wire Signal Name	ı
Ior WH 8N 7 8 8 8N 7 8 8 8 8	≯
Connector Name FUSE E Connector Color WHITE MATE SM 7N SM Terminal No. Color of Wire	N9

						3 2 1 23 22 21							
	Connector Name BCM (BODY CONTROL	MODULE)	EEN			9 8 7 6 5 4	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	me BCI	2 ≥	lor GRI			35 34 33 C	Color of Wire	۵	۵	>	Μ	۵	ГG
Connector No.	Connector Na		Connector Color GREEN		H.S.	20 19 18 17 16 15 14 13 12 11 10 9 8 8 4 13 32 31 30 29 28	Terminal No. Wire	10	Ŧ	12	13	14	36
			7							1			
	FUSE BLOCK (J/B)	IITE		7P 6P 5P 4P 3P 2P 1P			Signal Name	ı	ı				
ΑΜ	me FU	or Color WHITE		7P 6P 5P 4P 16P 15P 14P 13P			I No. Color of Wire	BG	≯				
or No.	or Name	or Co					No.						

-	ı		0	Connector Name BCM (BODY CONTROL MODULE)
BG	≯		M20	ne BCI MO
8P	13P		Connector No.	Connector Nar



BLACK

Connector Color

僵

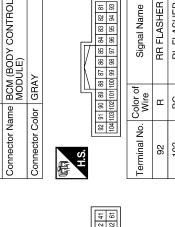
M19

Connector No.

Connector Name COMBINATION METER

Connector No.

Connector Color WHITE



Signal Name

Color of Wire

Terminal No.

GND2

GND1

В В

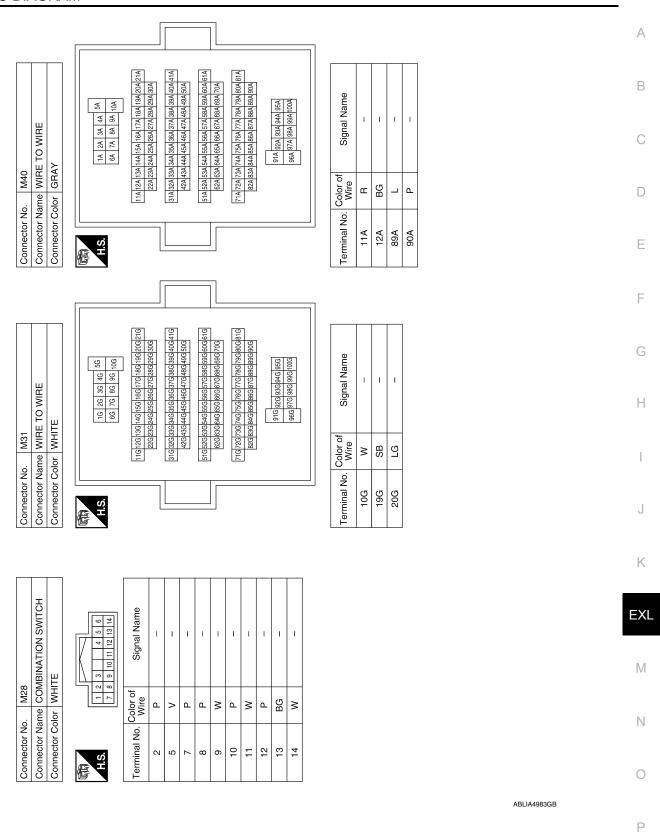
88		RR FLASHER	<u>ا بیر</u>
95	Signal Name	Ϊ	RL FLASHER
92	Z	PS	PS
8	l a	귙	립
26	Sig	Œ	ا ہے ا
88	",	ш.	[
104 103 102 101 100 99 98 97 96 95 94 93			
100	<u> </u>	_	
101	Color of Wire		/ _K
102	Solor o Wire	Œ	BG
103	ŏ-		
104	<u>o</u>		
	Terminal No.	92	103

	42 41	62 61									
	43	83									
	44	65 64					2	4	က	0	-
	45	69		Ф			5	5	5	5	Ļ
	46 45	99		aш	┕	ı	ō	ō	ō	ō	c
	47	6		Signal Name	CAN-L	CAN-H	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBLSW OUT 1
\vdash	48	88		na	S	\S	5	S = S	5	S =	5.
117	49	79 78 77 76 75 74 73 72 71 70 69		Sig			≝	ME	≝	≝	M
W	20	70		0,			Į Ģ	Ō	Į Q	Ŗ	Ŗ
IN.	51	7									٦
Ш	25	72	H	-							_
Ъ	23	73		e C			۸,			L	L
	32	74		color o Wire	Δ.	—	BG	Д		≥	≥
	55	72	Ц	ο´							
	29	92		<u>o</u>							
	57	12		<u> </u>							
ιĠ	28	8		Ľ.	59	9	75	9/	1	78	29
H.S.	29	2		Terminal No. Color of Wire							
	09	8		Te							

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

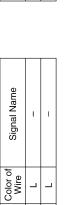
< WIRING DIAGRAM > [XENON TYPE]



Connector No.	M80
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK

1161151141131121111110109108107106105	120 121 120 132 123 123 125 131 131 131 131	
H.S.		

Signal Name	FR FLASHER	FL FLASHER	
Color of Wire	LG	SB	
Terminal No.	105	117	



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Terminal No.



CONTRECTOR INSTITUTE ACCUMENT AVAILOR ASSEMBLY	TE	6 8 8 10 12 14 16 13 15 15	Signal Name	ı	1
ASS ASS	lor WH	2 1	Color of Wire	GR	LG
Cormector Na	Connector Color WHITE	品.S.	Terminal No.	-	16
	•	·			

Connector No.	Š.		M84	84												
Connector Name WIRE TO WIRE	Nan	ЭС	≥	₩	Ш	2	≥	<u>E</u>								
Connector Color WHITE	Colc	ř	≥	Į≢∣	쁘											
							\	l IN	<i> </i>	l 117						
2	16	15	14	13	16 15 14 13 12 11 10 9	Ξ	9	6	8	7	9	5	4	9	2	-
6	32	31	30	29	28	27	26	25	24	23	22	21	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	19	18	17

Signal Name	-	I
Color of Wire	٦	Ь
Terminal No.	17	18





Signal Name	1	1	
Color of Wire	۵	Ь	
Terminal No.	-	2	

Connector No. M81 Connector Name BCM (E MODUI Connector Color WHITE	Connector No. M81 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE
	137 136 135 134 133 132 131 130 129 143 142 141 140 139 138

	Signal Name	BAT BCM FUSE	GND 2	BAT POWER F/L	GND 1
	Color of Wire	>	В	Μ	В
S	Terminal No. Wire	131	134	139	143

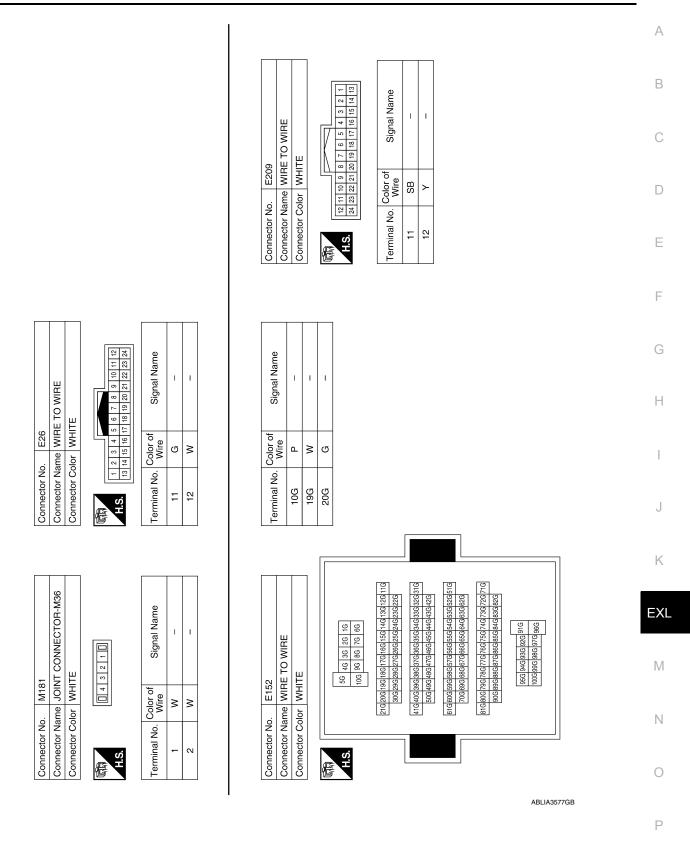
M41	Connector Name JOINT CONNECTOR-M18	WHITE
Connector No.	Connector Name	Connector Color WHITE



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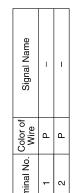
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

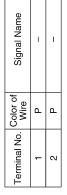
< WIRING DIAGRAM > [XENON TYPE]



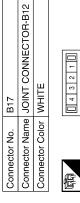
[XENON TYPE] < WIRING DIAGRAM >

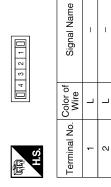
Connector No.	B11
Connector Name	Connector Name JOINT CONNECTOR-B09
Connector Color WHITE	WHITE



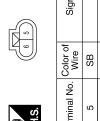








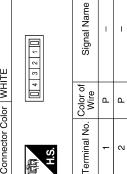
E239	Connector Name FRONT COMBINATION LAMP RH	GRAY	
Connector No.	Connector Name	Connector Color GRAY	



Signal Nar	I	ı	
Color of Wire	SB	В	
minal No.	5	9	

Signal	-	ı	
Color of Wire	SB	В	
Terminal No.	5	9	

B16	Connector Name JOINT CONNECTOR-B11	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



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

LAMP LH	<u>۲</u> ۲		Signal Nam	I	ı
Z	lor GR/		Color of Wire	Y	ď
	Connector Color GRAY	南 H.S.	Terminal No.	2	Ç

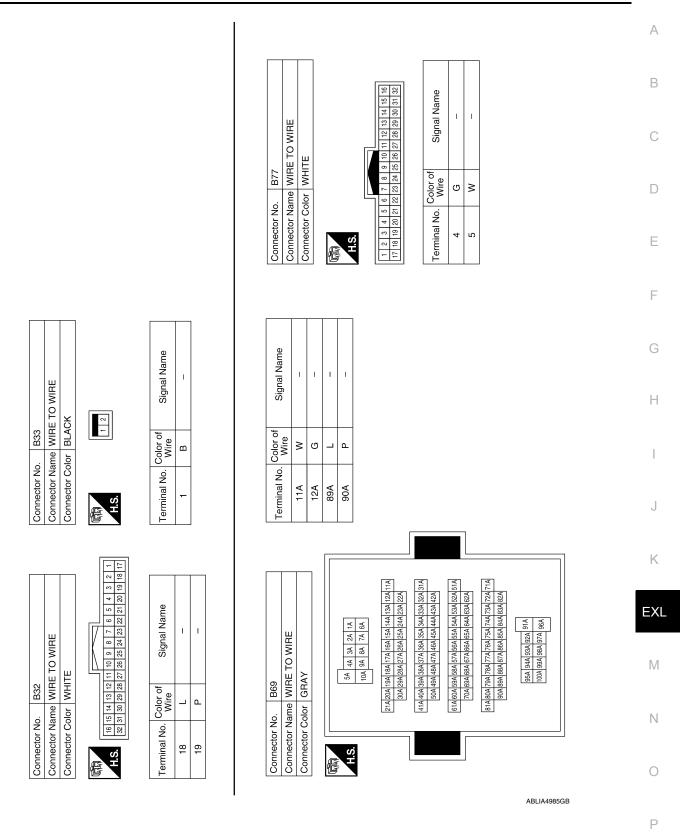
Connector Color WHITE	
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Signal Name	-	I	
Color of Wire	٦	٦	
Terminal No.	1	2	

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< WIRING DIAGRAM > [XENON TYPE]



[XENON TYPE] < WIRING DIAGRAM >

8	Connector Name JOINT CONNECTOR-B15	ПЕ	3 2 1 0	Signal Name	_	-
. B10	me JOII	lor WH	4	Color of Wire	Ь	Д
Connector No. B103	Connector Na	Connector Color WHITE	原 H.S.	Terminal No. Wire	1	2
	Connector Name JOINT CONNECTOR-B14	TE	3 2 1 0	Signal Name	-	1
B102	ne JOIN	or WHI	4	Solor of Wire	Г	٦
Connector No. B102	Connector Na	Connector Color WHITE	原 H.S.	Terminal No. Wire	1	2
			32			
)1	Connector Name WIRE TO WIRE	HTE	5 6 7 8 9 10 11 12 13 14 15 12 12 22 23 24 25 26 27 28 29 30 31	Signal Name	1	ı
). B10	ıme WIF	olor WH	2 3 4 5 18 19 20 21	Color of Wire		۵
Connector No. B101	Connector Na	Connector Color WHITE	H.S.	Terminal No. Wire	17	18

			İ			1
4	RE TO WIRE	CK		Signal Name	ı	
B40	me WIF	or BL/	57	Color of Wire	В	
Connector No. B404	Connector Nai	Connector Color BLACK	H.S.	Terminal No. Wire	-	
			18 17			
00	RE TO WIRE	IITE	14 13 12 11 10 9 8 7 6 5 14 3 2 1 30 29 28 27 26 25 24 23 22 21 20 19 18 17	Signal Name	ı	ı
. B40	me WIF	lor WH		Color of Wire	ŋ	>
Connector No. B400	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. (16 15 32 31	Terminal No. Wire	4	5
			الهما			
			13 14 15 16 29 30 31 32			

Signal Name ī

Terminal No. Color of Wire

۵

19 18

Connector Name WIRE TO WIRE Connector Color WHITE

B124

Connector No.

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

[XENON TYPE] < WIRING DIAGRAM >

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





Ð	Color o Wire	Μ	40
H.S.	Terminal No.	4	ы

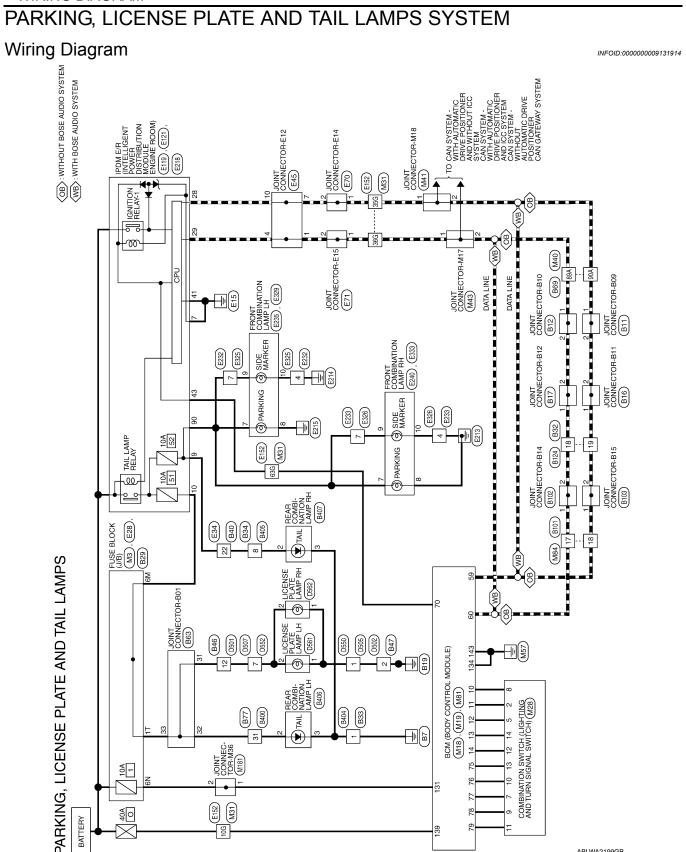
Signal Name

Connector No.	B408
Connector Name	Connector Name REAR COMBINATION LAMP
Connector Color GRAY	GRAY





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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS CONNECTORS

Connector No.	o. M3		Connector No.	. M18		S	Connector No.	M19		
Connector Name FUSE BLOCK (ame FUS	SE BLOCK (J/B)	Connector Na	me BCM MOD	Connector Name BCM (BODY CONTROL MODULE)	Col	Connector Name		BCM (BODY CONTROL MODULE)	
	20		Connector Color	lor GREEN	EN	S	Connector Color	or BLACK	Υ	
H.S.	NE NB		E SH				(A)			
		1	18 17 88 37	16 15 14 13 12 11 36 35 34 33 32 31	11 10 9 8 7 6 5 4 3 2 8 3 2 8 3 2 8 2 7 2 8 2 5 2 4 2 3 2 2 8 3 2 8 3 3 3 9 3 9 3 9 3 9 3 9 3 9 3 9 3 9 3		58 57 56 77 76	55 54 53 52 72 74 73 72	51 50 49 48 47 46 45 44 43 42 41 71 70 89 88 67 66 65 64 63 62 61	E E
Terminal No. Wire	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Ter	Terminal No.	Color of Wire	Signal Name	
N9	×	ı	10	۵	COMBI SW IN 5		59	۵	CAN-L	
			-	۵	COMBI SW IN 4		09	_	CAN-H	
			12	>	COMBI SW IN 3		70	۵	IGN USM OUT 1	
			13	>	COMBI SW IN 2		75	BG	COMBI SW OUT 5	
			14	۵	COMBI SW IN 1		92	۵	COMBI SW OUT 4	
							77	۵	COMBI SW OUT 3	
							78	>	COMBI SW OUT 2	
							79	M	COMBI SW OUT 1	

Signal Name	ı	1	1	ı	_	1	ı	1	ı	-
Color of Wire	۵	^	Ь	Д	M	Ь	8	Ь	BG	Ν
Terminal No.	2	5	7	8	6	10	=	12	13	14

Connector Name | COMBINATION SWITCH

M28

Connector No.

Connector Color WHITE

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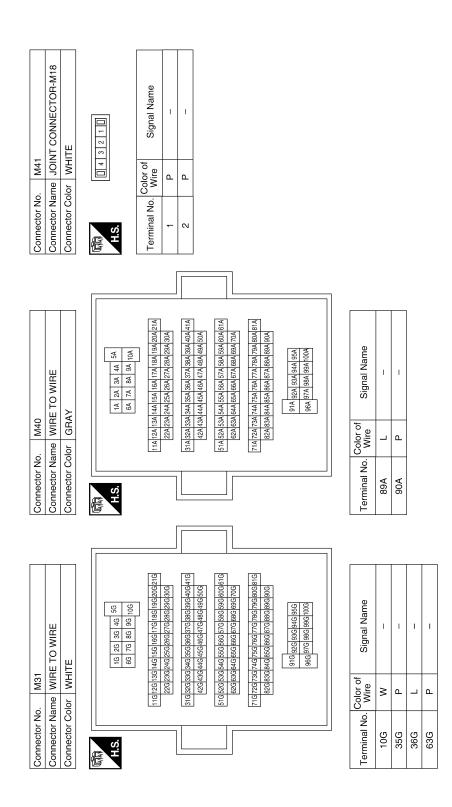
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Revision: August 2013 EXL-69 2014 QX60



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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

[XENON TYPE] < WIRING DIAGRAM >

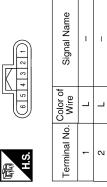
Connector No. M43 Connector Name JOINT CONNECTOR-M17 Connector Color WHITE	Connector No. M81 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE	Connector No. M84 Connector Name WIRE TO WIRE Connector Color WHITE (i) 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Terminal No. Color of Signal Name 1 L	Terminal No. Wire Signal Name 131 W BAT BCM FUSE 134 B GND 2 139 W BAT POWER F/L 143 B GND 1	
Connector No. M181 Connector Name JOINT CONNECTOR-M36 Connector Color WHITE Terminal No. Wire Signal Name 1 W - 2 W -	Connector No. E28 Connector Name FUSE BLOCK (J/B) Connector Color WHITE AM 3M COLOR Signal Name 6M L	Connector No. E34 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Connector Color WHITE Connector Color Color of Co
EX M	G H J	A B C C

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EXL-71 2014 QX60 **Revision: August 2013**

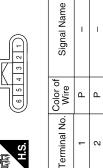
Connector No.	E71
Connector Name	Connector Name JOINT CONNECTOR-E15
Connector Color	BLACK

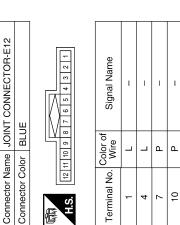


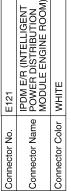




Connector No.





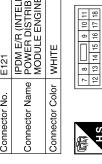


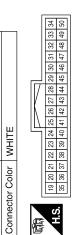
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Connector Name

E119

Connector No.





7 8	Signal Name	GND (POWER)	TAIL RH	TAIL LH
7 8 12 13 1	Color of Wire	В	g	_
H.S.	Terminal No. Wire	7	6	10
20 34				

Signal Name	CAN-L	CAN-H	GND (SIGNAL)	IGN SIGNAL
Color of Wire	Ь	Г	В	٦
Terminal No. Wire	28	29	41	43

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

Terminal No. Terminal No. Signal Name Terminal No. Wire Signal Name Terminal No.		l B	LG –	Color of Signal Name	<u> </u>	GRAY	FRONT COMBINATION	E235
10G P 10G					S.H	Connector Color	Connector Name	Connector No.
10G P 10G								
10G P 10G		I	ı	Signal Name	[2 2 3 3 3 3 3 3 3 3		TO WIRE	
10G 35G 36G	LG	В	Color of Wire	4 8 7 3	_			
FE TO WIRE		7	4		H.S.	Connector Co	Connector Na	Connector No
ST						_		
		ı	1	Signal Name	\(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\)	X	TO WIRE	
Single S		Pl	В	Color of Wire	4 8 2 2 9). E232
Connector Name Connector No. Connector Name Connector Name Connector Name Connector Name Terminal No. Color 7 L		7	4	erminal No.	H.S.	onnector Cc	onnector Na	onnector No

Revision: August 2013 EXL-73 2014 QX60

9;	RE TO WIRE	AY	2 9 9 × 1	Signal Name	ı	I
. E326	me WIF	lor GRAY		Color of Wire	В	P
Connector No.	Connector Name WIRE TO WIRE	Connector Color	原列 H.S.	Terminal No.	4	7

	ı		T] [
I	ı		JOINT CONNECTOR-B09	WHITE	3 2 1 0	Signal Name	1
Я	LG	B11	_		4	Color of Wire	Д
4	7	Connector No.	Connector Name	Connector Color	所 H.S.	Terminal No.	-

Connector No.). E325	5
Connector Name WIRE TO WIRE	me WIF	IE TO WIRE
Connector Color	olor BLACK	CK
H.S.	2 9 2	₩ 8 P
Terminal No.	Color of Wire	Signal Name
4	В	-
	FG	_

				_			
	33	FRONT COMBINATION LAMP RH	AY	(0) 6	Signal Name	_	I
	E333		lor GRAY		Color of Wire	ΓG	В
	Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	6	10

Connector No.). E240	0
Connector Name		FRONT COMBINATION LAMP RH
Connector Color GRAY	ilor GR	47
南 H.S.		
Terminal No.	Color of Wire	Signal Name
7	ГG	1
8	В	ı

6	FRONT COMBINATION LAMP LH	47		Signal Name	ı	1
. E329		lor GRAY		Color of Wire	ГG	В
Connector No.	Connector Name	Connector Color	明.S.	Terminal No.	6	10

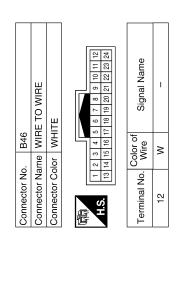
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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

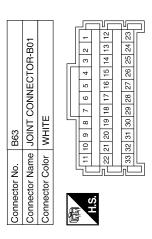
			А
TOR-B12	аше	ame	В
Connector No. B17 Connector Name JOINT CONNECTOR-B12 Connector Color WHITE WHITE H.S.	Signal Name	Signal Name	С
Vo. B17 Vame JOINT Color WHITI	Color of Wire L	Vo. B33 Vame WIRE To Color BLACK Color of Wire B	D
Connector No. B17 Connector Name JOINT C Connector Color WHITE	Terminal No.	Connector No. B33 Connector Name WIRE TO WIRE Connector Color BLACK Terminal No. Color of Signal No. Wire Terminal No. Wire Terminal No. Color of Signal No. Wire	Е
		18 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F
OR-B11	e u	20 1 1 2 1 1 2 1 2 1 2 1 3 3 3 3 3 3 3 3 3	G
B16 JOINT CONNECTOR-B11 WHITE	Signal Name	E TO WIRE TE TI 10 9 8 7 6 1 23 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Н
40. B16 JOINT Color WHITE	Color of Wire	No. B32 Name WIRE TO WII Color WHITE 16 15 14 13 12 11 10 9 12 23 27 26 25 25 25 25 25 25 25 25 25 25 25 25 25	I
Connector No. Connector Color	Terminal No.	Connector No. B32	J
			К
B12 JOINT CONNECTOR-B10 WHITE	Signal Name	B29 FUSE BLOCK (J/B) WHITE Trof Signal Name Trof Signal Name	EX
o. B12 ame JOINT (Color of Wire		N
Connector No. Connector Color Connector Color	Terminal No.	Connector No. Connector Color Connector Color H.S. 1T	0
		<u> </u>	IA3588GB

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Connector No.	. B40	
Connector Name WIRE TO WIRE	me WIF	RE TO WIRE
Connector Color	lor WHITE	ITE
H.S.	14 15 16 17	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Terminal No.	Color of Wire	Signal Name
22	W	-

	WIRE TO WIRE	TE	6 7 8 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name	ı
B34		or WHITE	1 4 5	Color of Wire	>
Connector No.	Connector Name	Connector Color	励 H.S.	Terminal No.	8



Signal Name

Color of Wire W

Terminal No.

33 32

IE TO WIRE	٩٧	S 0 8 7 4 8	Signal Name	ı
		<u> ю</u>	Color of Wire	α
Connector Nar	Connector Col	(FIG.	Terminal No.	c
	Connector Name WIRE TO WIRE			GRAY GRAY 1 2 3 5 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

[XENON TYPE] < WIRING DIAGRAM >

[8] [8]				А
26 27 28 29 30 31 32	e e	OR-B15	еш	В
TE TO WIRE	Signal Name	Connector No. B103 Connector Name JOINT CONNECTOR-B15 Connector Color WHITE	or of Signal Name	С
0. B77 ame WIRE T olor WHITE 2 3 4 5 6 18 19 20 21 22	W Wire	o. B103 ame JOINT (S S	a D
Connector No. B77 Connector Name WIRE TO WIRE Connector Color WHITE H.S. 1 2 3 4 5 6 7 8 9 1 17 18 19 20 21 22 23 24 25 2	31	Connector No. Connector Color	H.S. Terminal No.	α E
				F
Signal Name		Connector No. B102 Connector Name JOINT CONNECTOR-B14 Connector Color WHITE		G H
Color of Wire L		ame JOINT (7
Terminal No. 89A 90A		Connector No. Connector Name Connector Color	H.S. Terminal No.	Ŋ
			1 32 16	K
B69 	30A 39A 32A 32A 32A 32A 32A 32A 32A 32A 32A 32	B101 WIRE TO WIRE WHITE	8 7 8 9 10 11 12 13 14 15 16 12 22 23 24 25 26 27 28 29 29 30 31 32 Signal Name	EXL
Connector No. B69 Connector Name WIRE TO WIRE Connector Color GRAY SA 4A 3A 2A 10A 9A 8A 7A 10A 9A 8A 7A	81 A 80 A 70 A 80 A 80 A 80 A 80 A 80 A 80		Color of Wire	a N
Connector No. Connector Color Connector Color H.S.		Connector No. Connector Name Connector Color	Terminal No.	9
			ABL	A4991GB

EXL-77 Revision: August 2013 2014 QX60

4	Connector Name WIRE TO WIRE	CK		2 1		Signal Name	ı					
B404	e WIR	Connector Color BLACK				color of Wire	В					
tor No.	tor Nam	tor Colo				O No.						
Connector No.	Sonnect	Sonnect	Œ	H.S.		Terminal No. Wire	-					
				2 1 9 18 17				ı				
0	Connector Name WIRE TO WIRE	ITE		14 13 12 11 10 9 8 7 6 5 4 3 3 30 29 28 27 26 25 24 23 22 21 20 19		Signal Name	ı					
B400	e WIR	r WH		30 29 2		olor of Wire	>					
or No.	or Nam	or Colo		16 15 32 31		O .						
Connector No.	Connect	Connector Color WHITE	Œ	H.S.		Terminal No. Wire	31					
			_	32]			•				
-	Connector Name WIRE 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	ı	I				
B124	e WIR	Connector Color WHITE		3 4 5 19 20 21		olor of Wire	_	<u>a</u>				
Connector No.	or Name	or Color		1 2 17 18		Š.						
nnect	onnect	onnect	Œ	H.S.		Terminal No. Wire	18	19				

Connector No.). B407	7
Connector Na	me RE/	Connector Name REAR COMBINATION LAMP RH
Connector Color GRAY	olor GR	ΑY
原 用.S.		2 3
Terminal No.	Color of Wire	Signal Name
2	Μ	_
۲	au	_

Connector No	B406	
Connector Name	me RE/	REAR COMBINATION LAMP LH
Connector Color	lor GRAY	47
呵奇 H.S.		2 3
Terminal No.	Color of Wire	Signal Name
2	≥	ı
3	В	ı

5	RE TO WIRE	ITE	5 2 4 1	Signal Name	ı	
. B405	me WIF	lor WHITE	8 3 7	Color of Wire	≥	
Connector No.	Connector Name WIRE TO WIRE	Connector Color	南 H.S.	Terminal No.	80	

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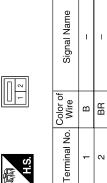
PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM > [XENON TYPE]

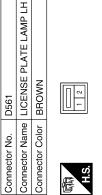
			Α
ame		аше	В
HITE HITE HITE Signal Name	D552 The WIRE TO WIRE The WIRE TO WIRE The WIRE TO WIRE The WI	Signal Name	С
Solor Solor B B B		No. Color of Wire BR	D
Connector No. Connector Color Connector Color H.S. Terminal No.	Connector No. Connector Col	Terminal No.	Е
			F
WIRE Signal Name		Signal Name -	G
22 12 12 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Connector No. D550 Connector Color WHITE MIS. 12 8		Н
ctor No.	Connector No. Connector Color Connector Color	Color of Wire 1 B	I
Conne Conne Termin	Conne	Tern	J K
ne 12 12 1		<u> </u>	EXL
ka	TO WIRE 12 1 10 9 1 10 9 1	Signal Nam	M
Connector No. D501 Connector Name WIRE TO WIRE Connector Color WHITE 12 11 10 9 8 7 6 5 4 24 23 22 21 20 19 18 17 16 12 Y	Connector No. D507 Connector Name WIRE TO WIRE Connector Color WHITE M.S. 16 15 14 13 12 11 10 9	Color of Ying	N
Connector No. Connector Name Connector Color Li2 11	Connector No. Connector Color Connector Color	Terminal No.	0
		ABLIA4992GB	Р

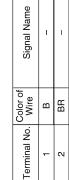
Revision: August 2013 EXL-79 2014 QX60

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









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STOP LAMP

Wiring Diagram

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STOP LAMP

Connector Name JOINT CONNECTOR-E01

Connector No. E44

Connector Color | WHITE

STOP LAMP CONNECTORS



Connector Name of OP LAMP SWILCH	믵	40	Signal Name	1	
	lor WH		Color of Wire	>	٥
	Connector Color WHITE	E.S.	Terminal No. Wire	1	
		1			
TIE TOSE BLOCK (J/B)	믵	4M 3M C 2M 1M 10M 9M 8M 7M 6M 5M	Signal Name	I	
200	or WHITE	4M 3M 10M 9M	Color of Wire	G	

Terminal No. Color of Wire

Q ۵

2M M

Signal Name	1	-	ı	1	
Color of Wire	Ф	Ь	٨	>	
Terminal No. Color of Wire	12	13	19	20	
		ı	1		
Signal Name	ı	ı			
Color of Wire	>	۵			
Terminal No. Wire	-	2			
a)					

Connector No. B46	Name WIRE TO WIRE	Connector Color WHITE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Terminal No. Color of Signal Name Wire	- B
Connector	Connector	Connector	H.S.	Terminal N	24
en en	Connector Name WIRE TO WIRE	ACK	12	Signal Name	ı
). B3	ame WII	olor BL		Color of Wire	В
Connector No. B33	Connector Na	Connector Color BLACK	H.S.	Terminal No. Wire	-
			1		
	SE BLOCK (J/B)	ITE	20 10 20 10 70 600 50 40	Signal Name	ı
). B30	tme FU	olor WH	30 [Color of Wire	თ
Connector No.	Connector Name FUSE BI	Connector Color WHITE	原 H.S.	Terminal No. Wire	50

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B407	Connector Name REAR COMBINATION LAMP	YAY		of Signal Name	ı	ı
	ıme RE∕	<u>i</u>		Color o Wire	თ	GR
Connector No.	Connector Na	Connector Color GRAY	H.S.	Terminal No. Wire	-	ဇ
	AMP.	<u> </u>				
90	Connector Name REAR COMBINATION LAMP	AY		Signal Name	ı	I
. B406	me RE	or GB		Color o	g	В
Connector No.	Connector Na	Connector Color GRAY	H.S.	Terminal No. Wire	1	3
						1
	E TO WIRE	X)		Signal Name	ı	
B404	ne WIRI	or BLA(~	Solor of Wire	В	
Connector No.	Connector Name WIRE TO WIRE	Connector Color BLACK	H.S.	Terminal No. Wire	-	

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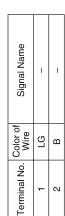
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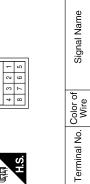
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Connector No.	D503
Connector Name	Connector Name HIGH-MOUNTED STOP LAMP
Connector Color BROWN	BROWN

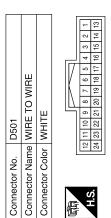






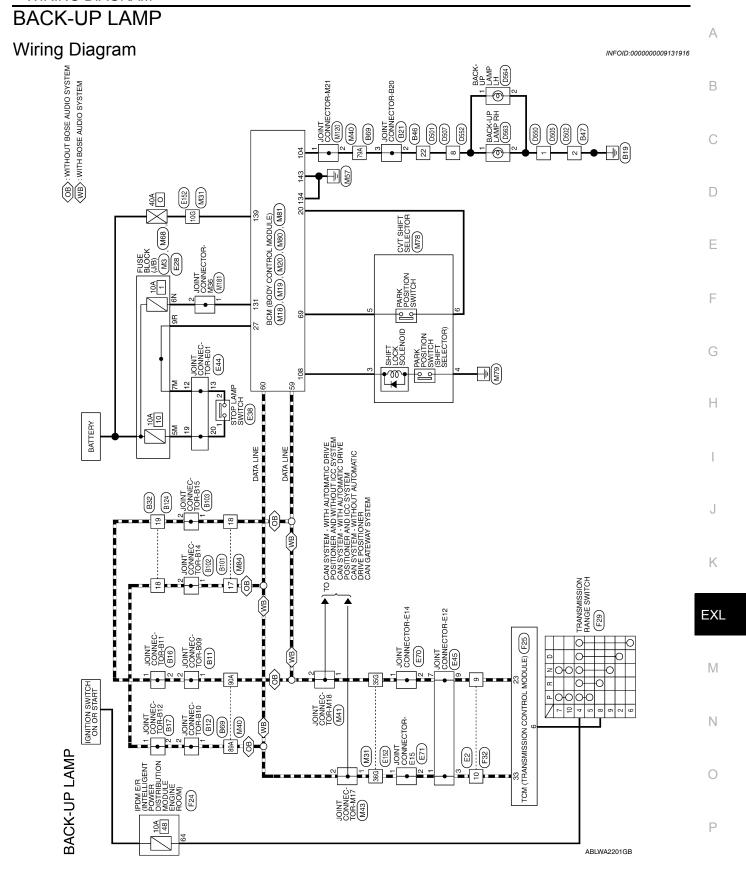
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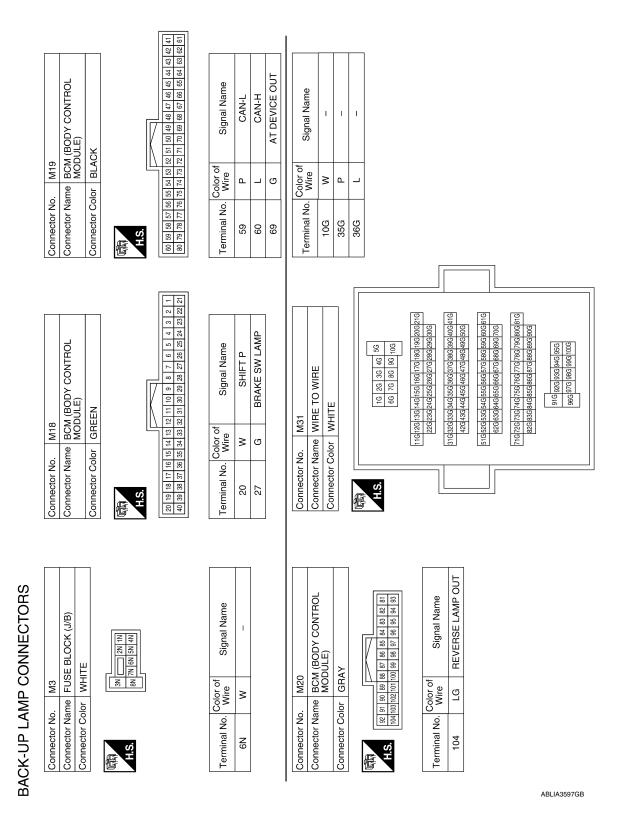
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Signal Name	1
Color of Wire	LG
Terminal No.	24

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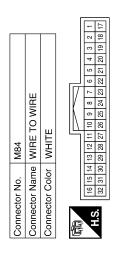
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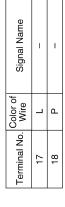
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Connector No. Connector Name JOINT CONNECTOR-M18 Connector Color Of Terminal No. Wire Signal Name 2 P 2 P	Connector No. M78	
Signal Name	M68 FUSE BLOCK (J/B) BROWN IRBESTATING OF SECOND Signal Name Color of Signal Name Color of C	
79A LG S9A LG 90A P	Connector No. M68 Connector Name FUSE BI Connector Color BROWN LIS. TRI 66 58 46 LEAS. TRI 66 58 46 LEAS	
Connector No. M40	Connector No. M43	



Signal Name	1	ı
Color of Wire	_	Ъ
Terminal No.	17	18



Signal Name	BAT BCM FUSE	GND2	BAT POWER E/I
Color of Wire	Μ	В	>
Terminal No.	131	134	139

GND1

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131 134 139 143





(BCM (BODY CONTROL MODULE)	BLACK	118 12 14 13 12 11 11 10 108 108 107 108 108 17	Signal Name	SHIFT LOCK
. M80			2712612511	Color of Wire	(
Connector No.	Connector Name	Connector Color	H.S. 1161	Terminal No.	007

Signal Name	SHIFT LOCK SOLENOID OUT	
Color of Wire	В	
Terminal No.	108	

-	JOINT CONNECTOR-M36	<u> </u>	4 3 2 1 1	Signal Name	I
. M181	me JOII	lor WHITE		Color of Wire	M
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1

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Copportor No	M120	
Connector Na		Connector Name IOINT CONNECTOR M31
		NI COMMEDIO DI PINIZI
Connector Color	lor WHITE	ITE
	4	3 2 1
0	-	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
6		
	10	i
l erminal No.	Wire	Signal Name
-	ГG	1
2	P	I

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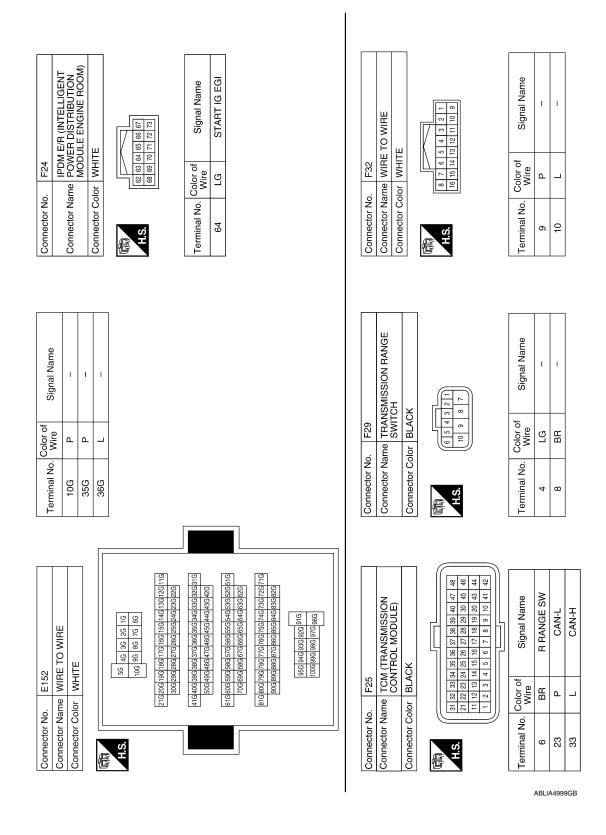
Connector Name FUSE BLOCK (J/B) Connector Color WHITE	_				ame JOINT		
Connector Color WHITE	Connector Na	me STOP L	Connector Name STOP LAMP SWITCH	Connector N		Connector Name JOINT CONNECTOR-E01	
	Connector Color WHITE	lor WHITE		Connector Color WHITE	olor WHITE	101	
H.S. 10M 3M 7M 6M 5M	是 H.S.			H.S.	22 21 20 19 18 7 6 5 4 22 21 20 19 18 17 16 15 33 32 31 30 29 28 27 26	8 17 16 15 14 13 12 11 15 14 13 12 15 15 15 15 15 15 15 15 15 15 15 15 15	
Terminal No. Color of Wire Signal Name	Terminal No. Color of Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	
- Y M3	-	>	1	12	۵	1	
7M P –	2	<u>م</u>	1	13	۵	I	
				19	>	ı	
				20	>	1	

	CTOR-E15			Signal Name	ı	1
E71	Connector Name JOINT CONNECTOR-E15	BLACK	5 4 4 3 2 1	Color of Sign		
	me	ō		So So So So So So So So So So So So So S		
Connector No.	Connector Na	Connector Color BLACK	H.S.	Terminal No.	1	2

Connector No.	. E70	
nector Na	me JOINT	Connector Name JOINT CONNECTOR-E14
nector Co	Connector Color BLACK	¥
H.S.	9 2 4	3 2 1
Terminal No.	Color of Wire	Signal Name
-	Ь	I
2	Ь	1

	Connector Name JOINT CONNECTOR-E12	ш	8 7 6 5 4 3 2 1	Signal Name	I	_	-	-
041	me JOI	lor BLL	12 11 10 9	Color of Wire	_	_	▄	Ь
COLLINGING.	Connector Na	Connector Color BLUE	H.S.	Terminal No. Wire	-	ε	2	6

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	Connector Name JONIT CONNECTOR-B11	Е	2 1 0	Signal Name	1	1
. B16	me JONI	lor WHIT	4	Color of Wire	۵	۵
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No. Color of Wire	-	2
	Connector Name JOINT CONNECTOR-B10		3 2 1	Signal Name	I	I
B12	TNIOL am	or WHIT	4	Color of Wire	۔	٦
Connector No. B12	Connector Na	Connector Color WHITE	H.S.	Terminal No. Color of Wire	-	2
	Connector Name JOINT CONNECTOR-B09		3 2 1	Signal Name	ı	1
B11	TNIOL am	or WHIT	4	Color of Wire	Ь	Д
Connector No.	Connector Nar	Connector Color WHITE	H.S.	Terminal No. Color of Wire	-	2

H.S.	Connector Name JOINT CONNECTOR-B12	Connector Name JOINT C	me JOINT	Connector Name JOINT CONNECTOR-B20	Conn	Connector Name WIRE T	Connector Name WIRE TO WIRE	O WIRE
	211	H.S.	MUII.		H.S.	16 15 14 30	14 13 12 11 10 30 29 28 27 26	10 9 8 7 6 5 4 3 2 1 28 55 24 23 22 21 20 19 18 17
			,					
Terminal No. Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Termi	Terminal No. Color of Wire	Solor of Wire	Signal Name
1 L	-	2	BR	1		18	٦ -	_
2 L	1	ဧ	BR	1		19	<u></u>	1

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

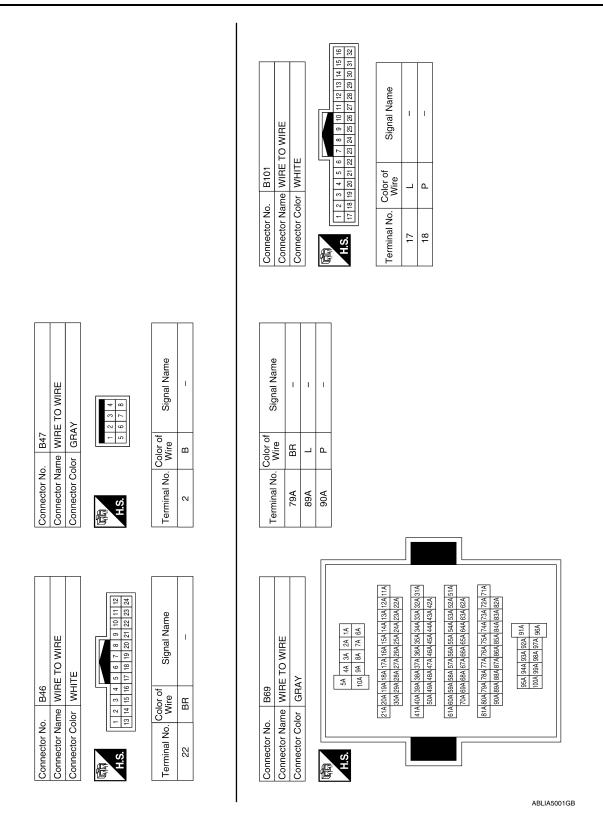
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			1 32			
	TO WIRE	111	4 5 6 7 8 9 10 11 12 13 14 15 16 12 20 21 22 23 24 25 26 27 28 29 39 31 32	Signal Name	ı	ı
B124	ne WIRE	or WHITE	3 4 5 6 119 20 21 2	Color of Wire	_	Ь
Connector No. B124	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. (17 18 13)	Terminal No. Color of Wire	18	19
			l			
3	Connector Name JOINT CONNECTOR-B15	正	3 2 1	Signal Name	ı	1
. B103	me JOIN	lor WHI	4	Color of Wire	۵	Д
Connector No. B103	Connector Na	Connector Color WHITE	哥 H.S.	Terminal No. Color of Wire	-	2
	Connector Name JOINT CONNECTOR-B14	щ	3 2 1 0	Signal Name	ı	1
B102	ne JOIN	or WHIT		Color of Wire	_	٦
Connector No.	Connector Nar	Connector Color WHITE	副 H.S.	Terminal No. Color of Wire	-	2

	,				
15	RE TO WIRE	ITE	O O O O O O O O O O	Signal Name	ı
D20	ne WIF	or WH	[[[[[[[[[[[[[[[[[[[Solor of Wire	В
Connector No. D505	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire	-
22	RE TO WIRE	AY	0 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	Signal Name	ı
D2(ne WIF	or GR	4 🛭	Solor of Wire	B
Connector No. D502	Connector Name WIRE TO WIRE	Connector Color GRAY	南 H.S.	Terminal No. Wire	2
-	E TO WIRE	ITE	20 19 18 17 16 15 14 13	Signal Name	1
D20	ne WIF	or WH	24 23 22 21 20 19 8 7 7 8 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8	Solor of Wire	LG
Connector No. D501	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. 12	Terminal No. Wire	22

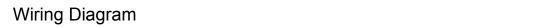
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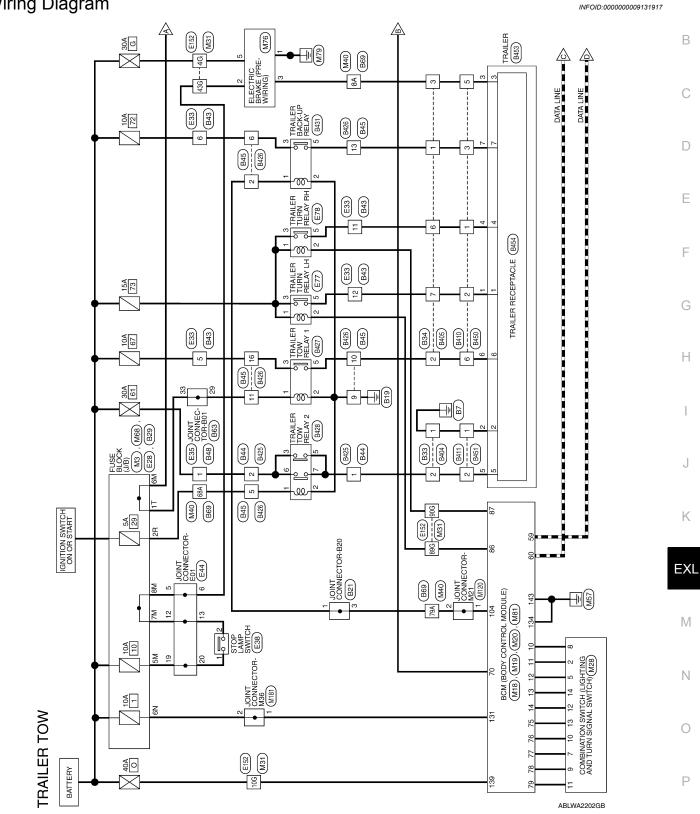
2	RE TO WIRE	ІТЕ	9 10 11 12 13 14 15 16	Signal Name
D552	e WIF	MH	100 100 100 100 100 100 100 100 100 100	olor of Wire LG
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire 8 LG
				ue u
D550	Connector Name WIRE TO WIRE	WHITE	- 4 2 0 © 0	for of Signal Name B -
Connector No. D550	Connector Name	Connector Color WHITE	訊.	Terminal No. Wire
	IRE		1 6 Z 0	Signal Name
D507	Connector Name WIRE TO WIRE	v WHITE	8 7 6 5 4 1 10 10 11 10 10 10 10 10 10 10 10 10 1	
Connector No.	Connector Nam	Connector Color WHITE	H.S.	Color of Wire Wire B LG

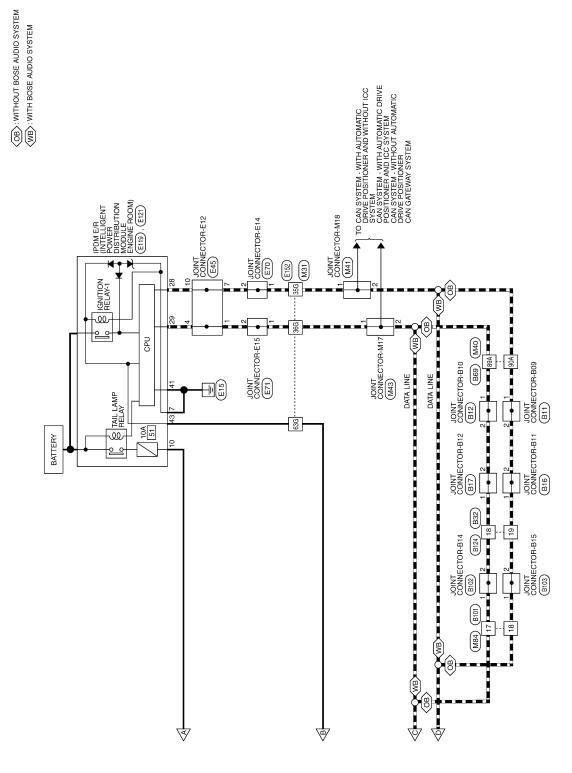
D564	Connector Name BACK-UP LAMP LH	ИНТЕ		of Signal Name	ı	1
	ame B	olor		Color	P P	В
Connector No.	Connector N	Connector Color WHITE	H.S.	Terminal No. Wire	1	7
			ı			
33	Connector Name BACK-UP LAMP RH	ІТЕ		Signal Name	ı	1
D563	ne BA(or WH		Solor of Wire	ГG	В
Connector No.	ector Nar	Connector Color WHITE	H.S.	Terminal No. Wire	1	2

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TRAILER TOW







Connector Name | BCM (BODY CONTROL MODULE)

M19

Connector No.

M18

BLACK

Connector Color

GREEN

Connector Color

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В

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TRAILER TOW CONNECTORS



Connector No.	M3
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	WHITE
赋动 H.S.	3N SN 1N SN 4N SN S

Signal Name	ı
Color of Wire	>
Terminal No.	N9

Signal Name	CAN-L	CAN-H	IGN USM OUT 1	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Color of Wire	Ь	٦	Ь	BG	Ь	Ь	*	Μ
Terminal No.	59	09	20	75	9/	77	78	79

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	Ь	Ь	^	Μ	Ь
Terminal No. Color of Wire	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	Д	>	Μ	Д
Terminal No. Color of Wire	10	11	12	13	14

Signal Name	ı	_	ı	ı	_	ı	ı	_	ı	ı
Color of Wire	Ь	۸	Ь	Ь	Μ	۵	Μ	Ь	BG	*
Terminal No. Color of Wire	2	2	7	8	6	10	11	12	13	14

M28	Connector Name COMBINATION SWITCH	r WHITE		1 2 3 4 5 6	7 8 0 10 11 12 13 14
Connector No.	Connector Name	Connector Color WHITE	(南) H.S.		





Connector Name BCM (BODY CONTROL MODULE)

M20

Connector No.

GRAY

Connector Color

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ſ	_	_	7		TRAILER FLASHER RL	TRAILER FLASHER RR	REVERSE LAMP OUT
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	8	92	l	Ιž	🛱	Ϋ́	צו
\Box	8	96	l	Signal Name	正	H	ју
117	85 84	97	l	ġ	16	EB	22
IV	98 /8	86	l	0	≓	⊒	ᄬ
IN.	87	96	l		<u> </u>	RA	삝
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F	88	101	l	` ₹			
	92 91 90 89 88 87 104 103 102 101 100 99	l	olor o Wire	œ	Д	ଅ	
	9	91 90	l	Color of Wire			_
	85	104	l				
E	É	ė.	J	Terminal No.	98	28	104

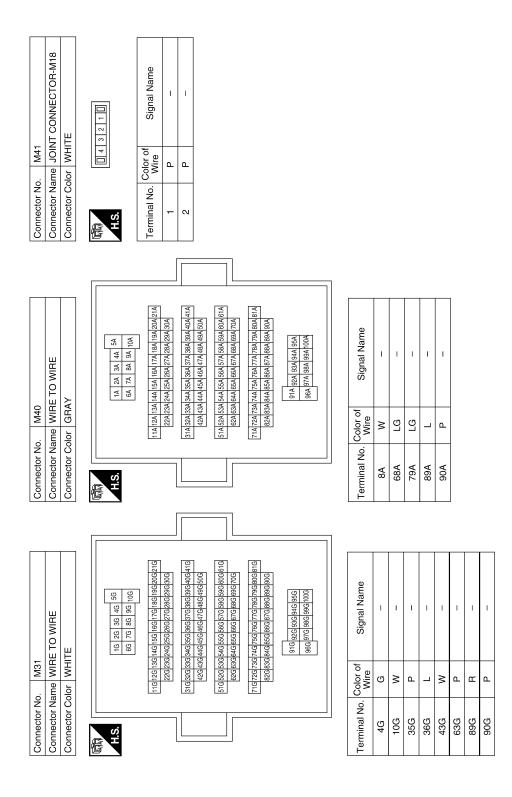
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	Connector Name ELECTRIC BRAKE (PRE-WIRING)		8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal Name	1	I	ı	1	ı	1
M76	ne ELEC (PRE	or WHI	2 1 3 4	Solor of Wire	В	>	>	ı	ŋ	1
Connector No.	Connector Nar	Connector Color WHITE	是 H.S.	Terminal No. Color of Wire	-	2	က	4	5	9
					I	1				
	BLOCK (J/B)	N	7R (BR) 5R 4R () 3R 2R 1R 1R 16B 15B 14R 13B 15B 17R 17B 15B 15B 15B 15B 15B 15B 15B 15B 15B 15	Signal Name	ı					
M68	ne FUSE	or BROWN	7R 6R 16R 15F	Solor of Wire	re P					
Connector No.	Connector Name FUSE BLOCK (J/B)	Connector Color	图.S.H	Terminal No. Color of Wire	2R					
		\neg					1			
	T CONNECTOR-M17	ш	3 2 1 1	Signal Name	1	I				
M43	ne JOIN	or WHIT	4	Solor of Wire	_	_				
Connector No.	Connector Name JOINT CONNECT	Connector Color WHITE	明.S.	Terminal No. Wire	-	2				

20	Connector Name JOINT CONNECTOR-M21	IITE	4 3 2 1	Signal Name	ı
M120	or JO	lor WF		Color o Wire	FG
Connector No.	Connector Na	Connector Color WHITE	南南 H.S.	Terminal No. Wire	1
			19 18 17		
				lame	
	O WIRE		10 9 8 7	Signal Name	I
4	R	ИTE	2 11	+	
Connector No. M84	Connector Name WIRE TO WIRE	Connector Color WHITE	32 31 30 29 28 27 26 25	Terminal No. Wire	7

TRAILER TOW

		2	22 21 20 19 18 17				1
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≥		5	30 29		E G		_
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등		15	32 31		0		
Connector Color WHITE		16	32		Terminal No. Wire		
양				I	ਲ	2	١
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Signal Name	BAT BCM FUSE	GND 2	BAT POWER F/L	GND 1
Color of Wire	>	В	8	В
Terminal No.	131	134	139	143

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Connector Name BCM (BODY CONTROL MODULE)

Connector No. M81

Connector Color WHITE

Terminal No. Color of Signal 1 W Signal 2 W Signal 2 W Connector No. E35 Connector Name WIRE TO WIRE Connector Color GRAY H.S.	Signal Name WIRE	H.S. H.S. Terminal No. Cole 6M L 7M F 8M F 8M F		Signal Name	HS. Terminal No. 5 6 11	Color of Wire R	4
or of life N N N N N N N N N N N N N N N N N N N	gnal Name IRE	5M 6M 7M 8M 8M Connector No Connector Na		Signal Name	Terminal No 5 6 6 11 11	Color of Wire R	
1 W 2 W		5M 6M 7M 7M 8M 8M Connector No Connector No		1 1 1 1	2 0 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R 7 0	1 1
nector No. E35 nector Color GRAY nector Color GRAY S.	- IRE	6M 7M 8M 8M Connector No Connector Na		1 1 1	11 12	G L	ı
nector No. E35 nector Name WIRE TO WI nector Color GRAY	IRE	8M 8M Connector No Connector Na		1 1	11 12	Ö	
nector No. E35 nector Name WIRE TO WI nector Color GRAY	IRE	SM Connector No Connector Na		1	12		1
nector No. E35 nector Name WIRE TO WII nector Color GRAY	IRE	Connector No Connector Na				\$	
inector Color GRAY	J. B.	Connector Na			Connector No	No.	
nector Color GRAY				STOP LAMP SWITCH	Connector	Name JOIN	Connector Name JOINT CONNECTOR-E01
· Θ.		Connector Color	lor WHITE		Connector Color WHITE	Color WHI	TE
		S. T.	m -	42	S. H.S.	22 21 20 19 33 32 31 30	22 21 20 19 18 17 16 15 14 13 12 17 22 33 32 31 30 29 28 27 26 25 24 23
Terminal No. Color of Sig	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	o. Color of Wire	Signal Name
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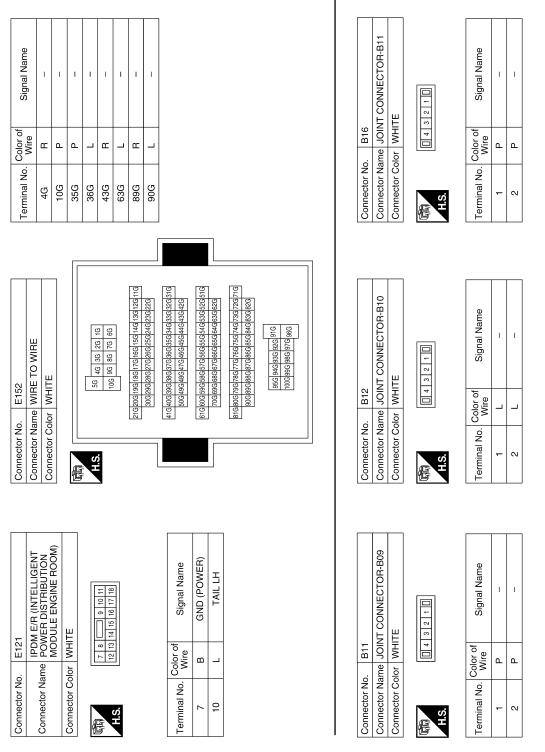
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Connector No. F71 Connector Name JOINT CONNECTOR-E15 Connector Color BLACK H.S. (6 8 4 3 2 1) Terminal No. Wire Signal Name 1	Connector No. E119 PDM E/R (INTELLIGENT PDM E/R (INTELLIGENT PDWER DISTRIBUTION MODULE ENGINE ROOM)
Connector No. E70 Connector Name JOINT CONNECTOR-E14 Connector Color BLACK E70 E	Connector No. E78 Connector Name TRAILER TURN RELAY RH Connector Color BLUE Terminal No. Color of Wire Signal Name 2 L - 3 P - 3 P - 5 G -
Connector No. E45 Connector Name JOINT CONNECTOR-E12 Connector Color BLUE Terminal No. Color of Signal Name 1	Connector No. E77 Connector Name TRAILER TURN RELAY LH Connector Color BLUE Terminal No. Vire Signal Name 2 R - 3 P - 5 W -

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MATERIAL COOL WITH E	Connector Name JOINT CONNECTOR-B12 Connector Color WHITE	Connector No. Connector Name Connector Color	Connector No. B21 Connector Name JOINT (Connector Color WHITE	Connector No. B21 Connector Name JOINT CONNECTOR-B20 Connector Color WHITE	Connector No. Connector Nam. Connector Color	Connector No. B29 Connector Name FUSE E Connector Color WHITE	Connector No. B29 Connector Name FUSE BLOCK (J/B) Connector Color WHITE
Terminal No. Color of Wire	Signal Name	Terminal No	Terminal No. Wire	Signal Name	Terminal No. Color of Wire	lo. Color of Wire	Signal Name
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	RE TO WIRE	ПЕ	2 6 7 8	Signal Name	_	_	-	_	
. B34	me WIF	lor WH	1 4	Color of Wire	\	M	G	g	W
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	南 H.S.	Terminal No.	-	2	3	9	7

	E TO WIRE	CK		Signal Name	I	ı
. B33	me WIF	lor BLACK	2	Color of Wire	В	W
Connector No.	Connector Name WIRE TO WIRE	Connector Color	₽ H.S.	Terminal No.	1	2

			16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
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	12	l	16 15 14 13 12 11 10 9 32 31 30 29 28 27 28 25
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	Je l	۲	14 30
<u>o</u>	<u>a</u>	ĕ	31
[=	5	32 19
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.

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

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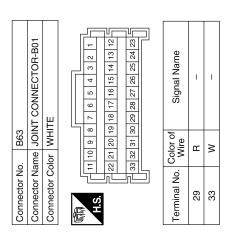
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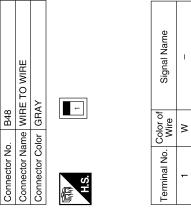
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5	Connector Name WIRE TO WIRE	HTE	2 3 	f Signal Name	ı	1	ı	ı	1	ı	ı	ı
. B45	me WI	lor Wi	- 0	Color of Wire	BR	Д	_	GR	Ν	>	>	ш
Connector No.	Connector Na	Connector Color WHITE	E SH	Terminal No.	2	5	9	6	10	11	13	16

Connector No.). B44	
Connector Name WIRE TO WIRE	ame WIF	RE TO WIRE
Connector Color BLACK	olor BL/	4CK
H.S.	-	2
Terminal No. Wire	Color of Wire	Signal Name
1	Μ	ı
2	Μ	1

Connector No.	o. B43	
Connector Name	ame WIR	WIRE TO WIRE
Connector Color WHITE	olor WH	
语 SH	1 2 6 7	3
ĺ		
Terminal No. Wire	Color of Wire	Signal Name
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9	٦	1
11	ŋ	1
12	Μ	1





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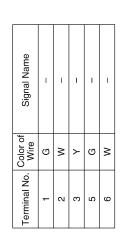
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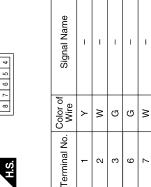
Connector No. B101	Connector Color WHITE			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Terminal No. Color of Signal Name 17 L – 18 P –	Connector No. B124 Connector Name WIRE TO WIRE Connector Color WHITE	H.S. 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	Terminal No. Color of Wire Signal Name 18 L - 19 P	
Signal Name	1	1	ı	ı	1		B103 JOINT CONNECTOR-B15 WHITE	3 2 1	Signal Name	
Terminal No. Color of Wire	8A G	68A P	79A BR	89A L	90A P		Connector No. B103 Connector Name JOINT Connector Color WHITE	斯 H.S.	Terminal No. Color of Wire 1 P 2 P	
Connector No. B69	Connector Color (3BAY			5A 44 04 04 04 04 04 04 04 04 04 04 04 04	10A 9A 8A	15/ 15/ 15/ 15/ 15/ 15/ 15/ 15/ 15/ 15/	Connector No. B102 Connector Name JOINT CONNECTOR-B14 Connector Color WHITE	(南) (1 1 1 1 1 1 1 1 1 1	Terminal No. Color of Wire Signal Name 1 L	ABLIA5011GB

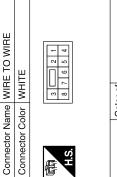
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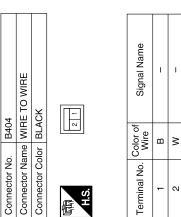
		111	
	B410	Connector Name WIRE TO WIRE	GRAY
	Connector No.	Connector Name	Connector Color GRAY
,			















Signal Nam	1	1
Color of Wire	^	٦
Terminal No.	1	2





Connector Name WIRE TO WIRE

Connector No. B411

Connector Color BLACK



Signal Name	ı	1
Color of Wire	В	M
Terminal No.	1	2

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COLINECTO INC.		
Connector Name WIRE TO WIRE	ame WIR	E TO WIRE
Connector Color BLACK	olor BLA	CK
	<u></u> 	
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S. S.))	
Terminal No. Wire	Color of Wire	Signal Name
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nector No.		B450
nector Name	ame W	WIRE TO WIRE
nector Color		GRAY
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ග්		5 4 1
ninal No.	Color of Wire	of Signal Name
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2	Μ	ı
3	\	ı
5	9	-
9	Μ	ı

_	Connector Name TRAILER BACK-UP RELAY	E		Signal Name	ı	1	1	ı
. B431	me TR/	lor BLL		Color of Wire	ŋ	В	٨	LG
Connector No.	Connector Na	Connector Color BLUE	南 H.S.	Terminal No.	-	2	3	5

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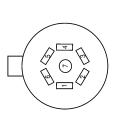
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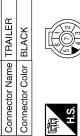


Signal Name	STOP/TURN LH	GROUND	ELECTRIC BRAKE	STOP/TURN RH	BATTERY	RUNNING LAMPS	BACK-UP LAMPS
Color of Wire	ı	-	ı	ı	-	ı	1
Terminal No. Wire	-	2	3	4	2	9	7



B453

Connector No.

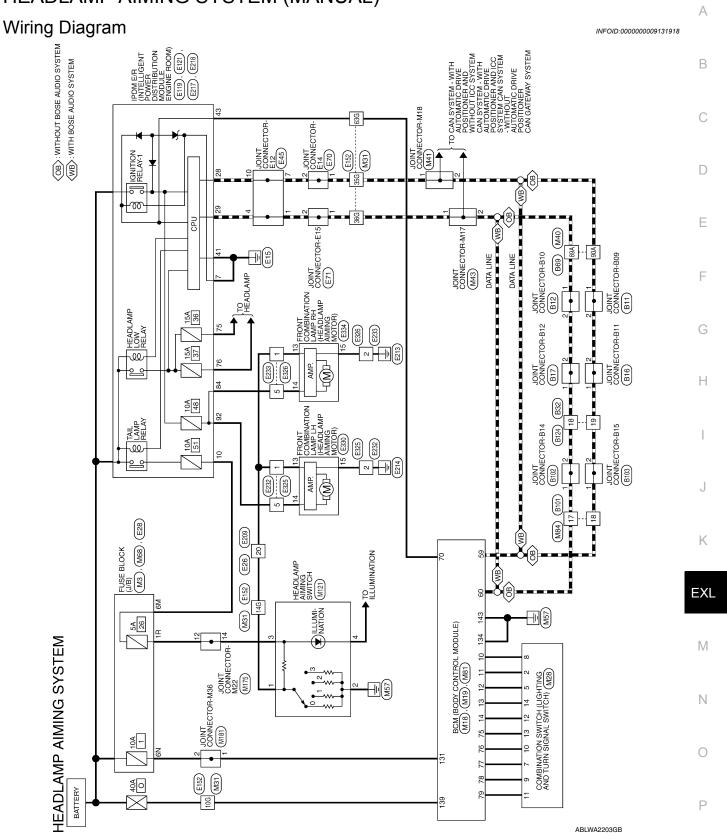


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Signal Name	ı	1	1	ı	1	1	_
Color of Wire	>	В	ŋ	ŋ	Μ	>	Υ
Terminal No.	_	2	3	4	2	9	7

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HEADLAMP AIMING SYSTEM (MANUAL)



BCM (BODY CONTROL MODULE)

Connector Name Connector Color

M19

Connector No.

BLACK

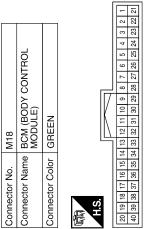
HEADLAMP AIMING SYSTEM CONNECTORS



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

Г	_	_
	41	9
	42	62
	43	8
	44	22
	45	58
	46	99
	47	29
	48	88
117	49	8
IV.	20	2
IN.	51	7
	52	72
	53	73
	54	74
	22	75
	26	9/
	57	77
76	88	28
E I	59	79
	8	8

	_			_				
Signal Name	CAN-L	CAN-H	IGN USM OUT 1	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
Color of Wire	۵	L	Ь	BG	Ь	Ь	>	W
Terminal No.	29	09	20	75	9/	22	78	62



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	Д	Д	^	8	Д	
Terminal No.	10	Ξ	12	13	14	

Signal Name	1	
Color of Wire	M	
Terminal No.	N9	

Signal Name	I	ı	I	1	ı	I	1	1	_	_
Color of Wire	۵	>	Ь	۵	*	Ь	>	Ь	BG	M
Terminal No.	2	5	7	æ	6	10	=	12	13	14

M28	Connector Name COMBINATION SWITCH	WHITE	2 2 3 0 10 11 12 13 14 8 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Connector No.	Connector Name	Connector Color WHITE	H.S.

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M31 Connector Name WIRE TO WIRE	Connector No. M41 Connector Name JOINT CONNECTOR-M18 Connector Color WHITE	Terminal No. Wire Signal Name 1 P	
WHITE		90A A POOR	
Connector No Conne	Connector No. M31 Connector Name WIRE TO WIRE Connector Color WHITE	116 126 36 44 46 46 46 46 46 4	

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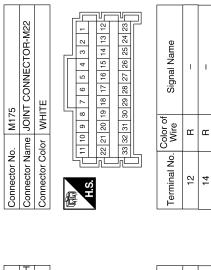
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tor Name BCM (BODY CONTROL MODULE) tor Color WHITE at No. Wire Signal Name 1 W A BAT BCM FUSE A BAT BCM FUSE B GND 2 B W BAT POWER F/L B W BAT POWER F/L B BAT BOD 1 BAT BOD 1	M (BC DULE						1			
Martin No. M81 MOI MOI	Connector Name BCM MOI Connector Name BCM MOI Connector Color WH H.S. H.S		1 (BODY CONTROL JULE)	TE		Signal Name	BAT BCM FUSE	GND 2	BAT POWER F/L	GND 1
ttor No.	Connector Na. Connector Col. H.S. Terminal No. 131 134 139 143		ne BCM MOE	or WHI	137 136 135 134 143 142 14	Color of Wire	8	В	>	В
Connec Connec Connec H.S. H.S. 13 13 13 14,		Connector No.	Connector Nar	Connector Col	Š	Terminal No.	131	134	139	143
			(J/B)		R 9R 8R	Name	ı			



				1		
M68 FUSE BLOCK (J/B) BROWN	78 68 68 48 (19 18 18 18 19 19 19 19	Signal Name	ı			
. M68 me FUSI lor BRO	7R 6R 5R 4R 16R 15R 14R 13R	Color of Wire	Œ			
Connector No. M68 Connector Name FUSE BI Connector Color BROWN	哥 H.S.	Terminal No. Wire	#			
Connector No. M43 Connector Name JOINT CONNECTOR-M17 Connector Color WHITE	3 2 1	Signal Name	ı	-		
Connector No. M43 Connector Name JOINT C	4	Terminal No. Wire	_	٦		
Connector No. Connector Name						

Connector Name		HEADLAMP AIMING SWITCH
Connector Color	_	WHITE
H.S.		4
Terminal No.	Color of Wire	Signal Name
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M121

Connector No.

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

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Connector Name ELISE BLOCK (1/R)		Connector Color WHITE			Color of Terminal No. Wire Signal Name	- P P P P P P P P P P P P P P P P P P P			
Connector No. E26	Connector Name WIRE TO WIRE	Connector Color WHITE		H.S. 1 2 3 4 5 6 7 8 9 10 11 12 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Color of Color of Wire Signal Name	20 BG -			
M181	JOINT CONNECTOR-M36	WHITE	000		r of Signal Name	1	1		
Connector No.	Connector Name JOINT CONNECTO	Connector Color WHITE		H.S.	Terminal No. Wire	1 W	2 W		

or No. E71 or Name JOINT CONNECTOR-E15 or Color BLACK (6 5 4 3 2 1) I No. Wire L	Connector No. Connector Name Connector Color Fig. H.S. Terminal No.
	7
7	-
Color of Wire	Ferminal No
	2
4 4	H.S.
	Connector (
	Sonnector №
	onnector ।

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JOINT CONNECTOR-E14 BLACK State to the state of the stat	ı
	凸
Connector No. Connector Color Connector Color H.S. Col Terminal No. W	2

	12							
	JOINT CONNECTOR-E12	Æ	8 7 6 5 4 3 2 1	Signal Name	I	_	I	
. E45	_	lor BLUE	11 10 8	Color of Wire	٦	٦	۵	٥
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	-	4	7	

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EXL-113 2014 QX60 **Revision: August 2013**

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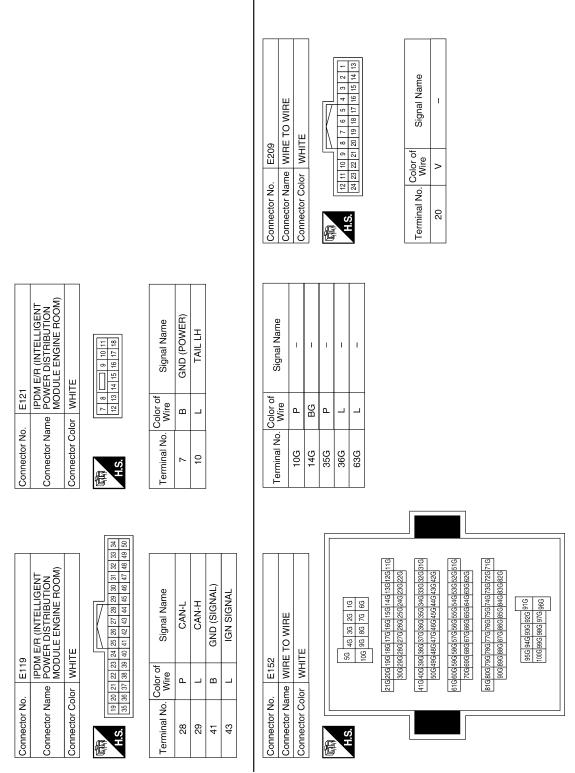
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TO WIRE	Signal Name	E TO WIRE
me WIRE T	Color of Wire V V L	me WIRE or GRAY
Connector No. E232 Connector Name WIRE TO WIRE Connector Color BLACK H.S. (4 3 2 1) H.S. (8 7 6 5)	Terminal No.	Connector No. E326 Connector Name WIRE TO WIRE Connector Color GRAY
POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE	Signal Name H/L LEVELIZER RH H/L LEVELIZER LH	Connector No. E325 Connector Name WIRE TO WIRE Connector Color BLACK
	Color of Wire SB	o. E325 olor BLAC BLAC BLAC
Connector No. Connector Color H.S.	Terminal No. 84 92	Connector No. Connector Color Connector Color HS.
PDM E/R (INTELLIGENT PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) POWER POW	Color of Signal Name Wire R HEADLAMP LO RH L HEADLAMP LO LH	Connector No. E233 Connector Name WIRE TO WIRE Connector Color GRAY ALS H.S.
Connector No. Connector Color	Terminal No. Co	Connector No. Connector Color Connector Color H.S.

Signal Name	ı	ı	-
Color of Wire	^	В	SB
Terminal No.	-	2	5

Signal Name	1	1	ı
Color of Wire	^	В	٦
Terminal No. Wire	-	2	5

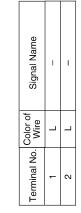
Signal Name	ı	ı	_	
Color of Wire	>	В	SB	
Terminal No.	1	2	5	

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_	No. E334	Connector No. B11	B11
	FRONT COMBINATION	Connector Name	Connector Name JOINT CONNECTOR-B09
E E	Name LAMP HH (HEADLAMP AIMING MOTOR)	Connector Color WHITE	WHITE
ō	Color GRAY		

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





Signal Name	ı	1	-
Color of Wire	>	SB	В
Terminal No.	13	14	15

Connector No.	B16
Connector Name	Connector Name JOINT CONNECTOR-B11
Connector Color WHITE	WHITE
] 4 3 2 1 []

Connector Color WHITE

Signal Name	I	I	
Color of Wire	Ь	۵	
Terminal No.	-	2	

Connector No.	E330	Connector No.
Connector Name	Connector Name LAMP LH (HEADLAMP AIMING MOTOR)	Connector Nar
Connector Color GRAY	GRAY	Connector Col



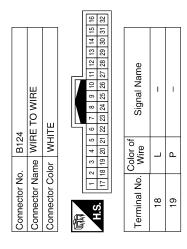
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Signal Name	ı	ı	ı
Color of Wire	>	٦	В
Terminal No.	13	14	15

Connector No.	B12
Connector Name	Connector Name JOINT CONNECTOR-B10
Connector Color WHITE	WHITE
原列 H.S.	

of Signal Name	ı	ı	
Color o Wire	_	_	
Terminal No. Wire	1	2	

ABLIA5019GB



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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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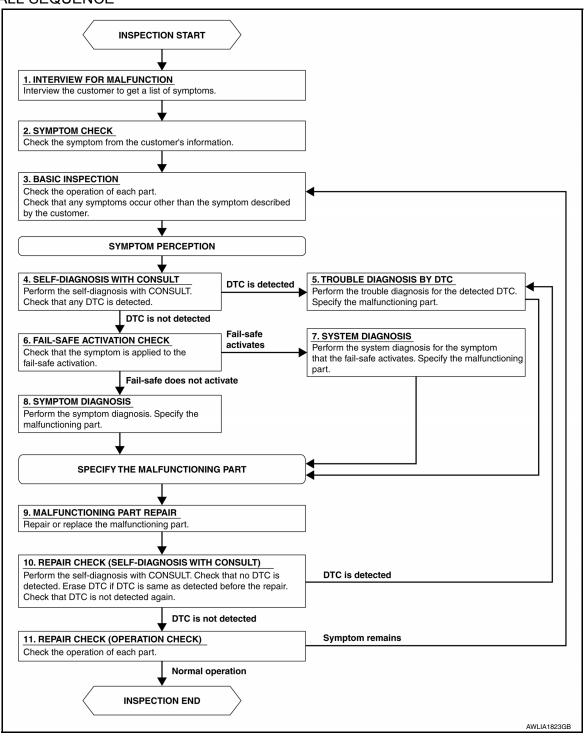
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OVERALL SEQUENCE



Revision: August 2013 EXL-119 2014 QX60

< BASIC INSPECTION > [XENON TYPE]

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.

${f 5}$. 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 EXL-146, "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)

Perform the self-diagnosis with CONSULT. Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

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.	
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:0000000009722361

Regarding Wiring Diagram information, refer to BCS-54, "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?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

BCM		Ground	Voltage	
Connector	Terminal	Ground	Voltage (Approx.)	
M81	131	D.	Pottory 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.

BCM		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M81	134	_	Yes	
	143	_	ies	

Is the inspection result normal?

YES >> Inspection End.

NO >> 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

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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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.

IPDM E/R		Ground	Voltage (Approx.)	
Connector	Terminal	Giodila	(Approx.)	
E118	1			
E110	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/R		Ground	Continuity	
Connector	Terminal	Glound	Continuity	
E121	7		Yes	
E119	41	_	165	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

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[XENON TYPE]

HEADLAMP (HI) CIRCUIT

Description INFOID:000000009131922

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

INFOID:0000000009131923

1. CHECK HEADLAMP (HI) OPERATION

NWITHOUT CONSULT

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

(P)WITH CONSULT

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

HI: Headlamp switches to the high beam.

OFF : Headlamp OFF

Does the headlamp switch to the high beam?

YES >> Headlamp (HI) circuit is normal.

NO >> Refer to EXL-124, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009131924

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

1. CHECK HEADLAMP (HI) FUSES

- 1. 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.

2.CHECK HEADLAMP (HI) OUTPUT VOLTAGE

®CONSULT ACTIVE TEST

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

(+)			()	Voltage
	Connector	Terminal	(-)	voltage
RH	E331	3	Ground	Rattery voltage
LH	E327	3	Glound	Battery voltage

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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Is battery voltage present?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK HEADLAMP (HI) CIRCUIT FOR OPEN

- 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	2	Front combination lamp		Continuity
Con	nector	Terminal	Connector	Terminal	Continuity
RH	E217	80	E331	3	Yes
LH	LZ17	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.

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[XENON TYPE]

HEADLAMP (LO) CIRCUIT

Description INFOID:000000009131925

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:0000000009131926

1. CHECK HEADLAMP (LO) OPERATION

NWITHOUT CONSULT

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

NOTE:

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

CONSULT

- 1. Select EXTERNAL LAMP of IPDM E/R active test item.
- 2. While operating the test item, check that the headlamp is turned ON.

LO : Headlamp ON OFF : Headlamp OFF

Is the headlamp turned ON?

YES >> Headlamp (LO) is normal.

NO >> Refer to EXL-126, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009131927

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

1. CHECK HEADLAMP (LO) FUSES

- 1. 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?

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

NO >> GO TO 2.

2.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

(P)CONSULT

- 1. Turn the ignition switch OFF.
- Disconnect the front combination lamp harness connector E332 or E328.
- 3. Turn the ignition switch ON.
- 4. Select EXTERNAL LAMP of IPDM E/R active test item.
- 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

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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RH	E332	1	Ground	Battery voltage
LH	E328	!	Glound	Battery 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	IPDM E/R Front combination lamp		Front combination lamp		
Coni	nector	Terminal	Connector Terminal		Continuity	
RH	E217	75	E332	1	Yes	
LH	LZ17	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.

Conr	nector	Terminal	_	Continuity
RH	E332	2	Ground	Yes
LH	E328	2	Ground	165

Does continuity exist?

YES >> Perform xenon headlamp diagnosis. Refer to EXL-128, "Diagnosis Procedure".

NO >> Repair the harness or connector.

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Revision: August 2013 EXL-127 2014 QX60

[XENON TYPE]

XENON HEADLAMP

Description INFOID:0000000009131928

OPERATION

Refer to EXL-128, "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.
- · 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:0000000009131929

1. CHECK XENON BULB

Install a known good bulb to the applicable headlamp. Check that the headlamp operates.

Is the inspection result normal?

YES >> Replace the xenon bulb.

NO >> GO TO 2.

2.CHECK HID CONTROL UNIT

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.

NO >> Inspection End.

DAYTIME LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

INFOID:0000000009131931

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DAYTIME LIGHT RELAY CIRCUIT

Description INFOID:0000000009131930

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

Regarding Wiring Diagram information, refer to <a>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.
- Turn the ignition switch ON.
- Check the voltage between the following daytime light relay harness connector E4 terminals and ground.

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

Is the inspection results normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DAYTIME LIGHT RELAY CIRCUIT

- Turn the ignition switch OFF.
- Disconnect IPDM E/R harness connector E121. 2.
- 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)* 	

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

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

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DAYTIME LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

INFOID:0000000009131932

IPDM	IPDM E/R		Daytime light relay	
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.

f 4.CHECK DAYTIME LIGHT RELAY

Check the daytime light relay. Refer to EXL-130, "Component Inspection".

Is the inspection results normal?

YES >> GO TO 6.

NO >> Replace relay.

CHECK DAYTIME LAMP CIRCUIT FOR OPEN

- Turn the ignition switch OFF.
- 2. Disconnect the front fog lamp harness connector E303 or E304 in question.
- Check continuity between the daytime light relay harness connector E4 and the front fog lamp harness connector E303 or E304.

Front fo	og lamp	Daytime light relay Connector Terminal		Continuity
Connector	Terminal			Continuity
LH E303	2	E4	6	Yes
RH E304	3	C4	3	165

Is the inspection results normal?

YES >> GO TO 6.

NO >> Repair or replace the harnesses or connectors.

$oldsymbol{6}$.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 4 and ground.

Connector	Terminal	(-)	Continuity
LH E303	1	Ground	Yes
RH E304	4	Giodila	ies

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace the harnesses or connectors.

Component Inspection

1. CHECK DAYTIME LIGHT RELAY

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

DAYTIME LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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

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Is the inspection result normal?

YES

>> Inspection End.
>> Replace daytime light relay. NO

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HEADLAMP AIMING SYSTEM (MANUAL)

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

HEADLAMP AIMING SYSTEM (MANUAL)

Description INFOID.000000009131933

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

INFOID:0000000009131934

1.CHECK HEADLAMP AIMING SWITCH

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

Headlamp a	Headlamp aiming switch Terminal		Resistance
Teri			(Approx.)
	2	0	160 Ω
1		1	402 Ω
'		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

INFOID:0000000009131935

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

1. CHECK HEADLAMP AIMING MOTOR FUSES

- Turn the ignition switch OFF.
- 2. 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.

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 E330 or headlamp aiming motor RH harness connector E334.
- Check continuity between IPDM E/R harness connector E218 and headlamp aiming motor LH harness connector E330 or headlamp aiming motor RH harness connector E334.

IPDI	M E/R	Headlamp aiming motor		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
E218	92	LH	E330	14	Yes
E210	84	RH	E334		res

^{4.} Check continuity between the IPDM E/R harness connector and ground.

HEADLAMP AIMING SYSTEM (MANUAL)

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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IPDM E/R			Continuity	
Connector	Terminal	_	Continuity	
E218	92	Ground	No	
	84	Giouna	140	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the harness or connector.

 $3. \mathsf{CHECK}$ 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 E330 or headlamp aiming motor RH harness connector E334.

Headlamp a	aiming switch	Headlamp aiming motor		vitch Headlamp aiming motor		Continuity
Connector	Terminal	Connector		Terminal	Continuity	
M121	1	LH	E330	13	Yes	
IVI I Z I	M121 1	RH	E334	13	res	

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

Headlamp a	aiming switch	(-)	Continuity	
Connector	Terminal	(7)	Continuity	
M121	1	Ground	No	

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace the harness or connector.

$oldsymbol{4}.$ CHECK HEADLAMP AIMING MOTOR GROUND CIRCUIT

Check continuity between headlamp aiming motor LH harness connector E330 or headlamp aiming motor RH harness connector E334 and ground.

	Headlamp aiming motor	()	Continuity	
Conr	nector	Terminal	(-)	Continuity
LH	E330	15	Ground	Yes
RH	E334	15	Giouria	165

Is the inspection result normal?

YES >> Inspect the headlamp aiming motors.

NO >> Repair or replace the harness or connector.

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[XENON TYPE]

FRONT FOG LAMP CIRCUIT

Description INFOID:000000009131936

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

INFOID:0000000009131937

1. CHECK FRONT FOG LAMP OPERATION

NWITHOUT CONSULT

- Activate IPDM E/R auto active test. Refer to PCS-8, "Diagnosis Description".
- 2. 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-134, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009131938

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

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

(+)			(_)	Voltage (Approx.)
С	onnector	Terminal	(-)	(Approx.)
LH	E305	1	Ground	Patton, voltago
RH	E306	'	Giodila	Battery voltage

Is battery voltage present?

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

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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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	E217	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.

Conr	nector	Terminal	_	Continuity
LH	E305	2	Ground	Yes
RH	E306	2	Ground	163

Does continuity exist?

YES >> Inspect the fog lamp bulb.

NO >> Repair or replace the harnesses or connectors.

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PARKING LAMP CIRCUIT

Description INFOID:000000000913193S

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:0000000009131940

1. CHECK PARKING LAMP OPERATION

NWITHOUT CONSULT

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

(II) WITH CONSULT

- Select EXTERNAL LAMPS of IPDM E/R active test item.
- 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-139, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009131941

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

1. CHECK PARKING LAMP FUSES

- 1. Turn the ignition switch OFF.
- 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	Ground	Battery voltage
RH	E240	I	Giodila	Dattery Voltage

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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

	(+)		(-)	Voltage
	Connector	Terminal	(-)	(Approx.)
LH	E329	0	Ground	Rattery 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	Pattony voltage
RH	B407	2	Ground	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	Pottory voltage
RH	D562	2	Giodila	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.
- 3. Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

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

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

IPDM E/R			Front side	Continuity		
Со	nnector	Terminal	Connector Terminal		Continuity	
LH	E218	90	E329	9	Yes	
RH	LZIO	90	E333	9	163	

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	E121	9	B407	2	res

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PARKING LAMP CIRCUIT

[XENON TYPE]

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

IPDM E/R			License	Continuity	
	Connector	Terminal	Connector	Terminal	Continuity
LH	E121	10	D561	2	Yes
RH		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	0	Ground	Yes	
RH	E240	0	Giouna		

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

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

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

(+)			(-)	Continuity	
	Connector Terminal		(-)	Continuity	
LH	B406	2	Ground	Yes	
RH	B407	3	Ground		

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

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

Are the inspection results normal?

YES >> Inspect the parking lamp bulb.

NO >> Repair or replace the harness or connector.

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

INFOID:0000000009131943

INFOID:0000000009131944

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TURN SIGNAL LAMP CIRCUIT

Description INFOID:000000000131942

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

1.CHECK TURN SIGNAL LAMP

©CONSULT

- 1. Select FLASHER of BCM (FLASHER) active test item.
- 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-139, "Diagnosis Procedure".

Diagnosis Procedure

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 guestion.
- 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.)	

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TURN SIGNAL LAMP CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

RH	E239			
LH	E234	5	Ground	15 10 5 0

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 1 s

Is voltage reading as specified?

YES >> GO TO 5.

NO >> GO TO 3.

3.CHECK TURN SIGNAL LAMP CIRCUIT FOR 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		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	IVIZU	92	B409	4	165	

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.

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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	ВСМ			Continuity
Cor	nnector	Terminal	Ground	Continuity
LH	M80	117		
RH	IVIOU	105		NO

2. Check continuity between the BCM harness connector M20 and ground.

ВСМ			Continuity	
Co	nnector	Terminal	Cround	Continuity
LH	M20	103	Ground	No
RH	IVIZU	92		INO

Are the inspection results normal?

YES >> Replace BCM. Refer to BCS-79, "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.

Front combination lamp			()	Continuity
Connector Terminal		(-)		
LH	E234	6	Ground	Yes
RH	E239	0	Giodila	165

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

Rear combination lamp			()	Continuity
Connector Terminal		Terminal	(-)	Continuity
LH	B408	5	Ground	Yes
RH	B409	5	Giouria	165

Are continuity results as specified?

YES >> Replace the malfunctioning lamp.

NO >> Repair or replace the harness or connectors.

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[XENON TYPE]

OPTICAL SENSOR

Description INFOID:0000000009131945

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

Component Function Check

INFOID:0000000009131946

1. CHECK OPTICAL SENSOR SIGNAL TO BCM

(P)CONSULT

- 1. Turn the ignition switch ON.
- 2. Select OPTI SEN (DTCT) of BCM (HEAD LAMP) DATA MONITOR item.
- 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 * *	
OPTI SEN (DTCT)	When outside of vehicle is dark	0.6 V or less	

^{*:}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-142</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000009131947

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

1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

- 1. Turn the ignition switch OFF.
- 2. Disconnect the optical sensor harness connector M15.
- 3. 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		(-)		
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.

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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Disconnect the BCM harness connector M18.

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

Optical sensor		В	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M15	1	M18	3	Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connectors.

4. CHECK OPTICAL SENSOR POWER SUPPLY FOR SHORT CIRCUIT

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

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair or replace harness or connector.

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.

Optical sensor		BCM		Continuity
Connector	Terminal	Connector Terminal		Continuity
M15	3	M18	17	Yes

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair or replace harness or connector.

6.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.

Optical sensor		В	Continuity	
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".

NO >> Repair or replace harness or connectors.

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HAZARD SWITCH

Component Function Check

INFOID:0000000009131948

$1.\mathsf{check}$ hazard switch signal by consult

©CONSULT DATA MONITOR

- Turn ignition switch ON.
- 2. 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
		OFF	Off

Is the inspection result normal?

YES >> Hazard switch circuit is normal.

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

Diagnosis Procedure

INFOID:0000000009131949

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.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

$2.\mathsf{CHECK}$ HAZARD SWITCH SIGNAL OPEN CIRCUIT

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

Hazard switch		BCM		Continuity
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-79, "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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[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.

Symp	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-124</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 l		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-78.
		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-126</u> .
	Both sides	_	Symptom diagnosis BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON Refer to EXL-151.
Headlamp does not turn OFF.	When the ignition switch is turned ON	BCM Combination switch (lighting and turn signal switch)	Combination switch (lighting and turn signal switch) Refer to $\frac{BCS}{78}$.
	The ignition switch is turned OFF (After activating the battery saver).	IPDM E/R	_

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

Symp	otom	Possible cause	Inspection item
Headlamp is not turned ON/OFF with lighting switch AUTO.		Combination switch (lighting and turn signal switch) Harness between combination switch and BCM BCM	Combination switch Refer to BCS-78.
		Optical sensor Harness between optical sensor and BCM BCM	Optical sensor Refer to <u>EXL-142</u> .
Daytime light system does (if equipped)	not activate.	Fuse Harness between IPDM E/R and the daytime light relay Harness between daytime light relay and the front fog lamp Harness between the front fog lamp and ground Daytime light bulb IPDM E/R Daytime light relay BCM	Symptom diagnosis Daytime light system inoperative. Refer to <u>EXL-154</u> .
Headlamp aiming motor	One side	Fuse Harness between IPDM E/R and headlamp aiming motor Headlamp aiming motor IPDM E/R	Headlamp aiming switch Refer to EXL-132.
does not operate.	Both sides	Headlamp aiming switch Harness between aiming switch and headlamp aiming motor IPDM E/R	Front combination lamp (headlamp aiming motor) Refer to EXL-132.
Front fog lamp is not turned ON.	One side	Front fog lamp bulb Harness between IPDM E/R and front fog lamp Front fog lamp IPDM E/R	Front fog lamp circuit Refer to <u>EXL-134</u> .
tamed GW.	Both sides	_	Symptom diagnosis BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON Refer to EXL-134.
Parking lamp is not turned ON.	One side	Parking lamp bulb Harness between IPDM E/R and front/rear combination lamp Harness between front/rear combination lamp and ground Front/rear combination lamp IPDM E/R	Parking lamp circuit Refer to <u>EXL-136</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-139.

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EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

Symptom		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-75.
 Hazard warning lamp does not activate. Hazard warning lamp continues activating (Turn signal is normal). 		Hazard switch Harness between the hazard switch and BCM BCM	Hazard switch Refer to EXL-144.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS > [XENON TYPE]

NORMAL OPERATING CONDITION

Description A

XENON HEADLAMP

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

AUTO LIGHT SYSTEM

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

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BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description INFOID:000000009131952

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

Diagnosis Procedure

INFOID:0000000009131953

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

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

Monitor item	Condition		Monitor status
HL HI REQ	Lighting switch	HI or PASS	ON
TILTITALQ	(2nd)	Except for HI or PASS	OFF

Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to <u>BCS-79</u>, "Removal and Installation".

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-124, "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:000000000131954

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

Diagnosis Procedure

INFOID:0000000009131955

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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 <u>READING SYSTEM</u>: 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	ON	
TIE EO INEQ	Lighting Switch	OFF	OFF

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

3. HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to EXL-126, "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:0000000009131956

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

Diagnosis Procedure

INFOID:0000000009131957

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

Check the combination switch (lighting and turn signal switch). Refer to <u>BCS-78</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 & CLR REQ Lighting s	Lighting switch	1st	ON
TAIL & OLIVINEQ	Lighting switch	OFF	OFF

Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

3.PARK LAMP CIRCUIT INSPECTION

Check the parking lamp circuit. Refer to EXL-136, "Diagnosis Procedure".

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:000000000131958

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

Diagnosis Procedure

INFOID:0000000009131959

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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-78, "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
FR FOG REQ	(Lighting switch 2nd)	OFF	OFF

Is the monitor item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

3.FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-134, "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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Revision: August 2013 EXL-153 2014 QX60

DAYTIME LIGHT SYSTEM INOPERATIVE

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

DAYTIME LIGHT SYSTEM INOPERATIVE

Description INFOID:000000009131960

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:0000000009131961

1. CHECK DAYTIME LIGHT OPERATION

- Perform BCM(HEADLAMP) DAYTIME RUNNING LIGHT active test. Refer to <u>BCS-17</u>, "HEADLAMP CONSULT Function (BCM HEADLAMP)".
- 2. Check that the daytime lights turn on.

Is the inspection results normal?

YES >> Replace BCM. Refer to BCS-79, "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-129, "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]

PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Inspection INFOID:0000000009131962 В

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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EXL-155 Revision: August 2013 2014 QX60

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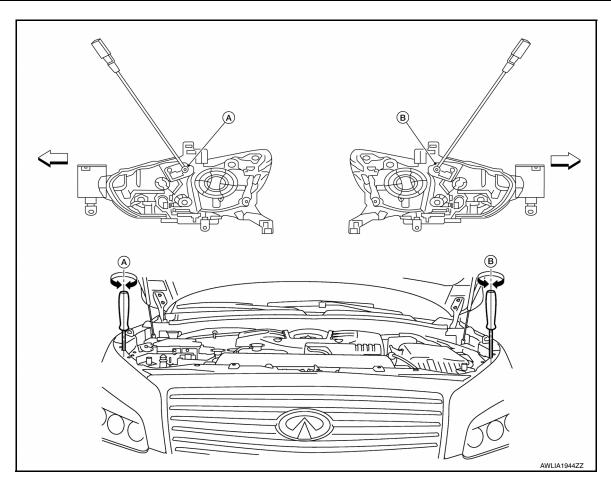
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- A. Headlamp RH HI/LO (UP/DOWN) adjustment screw

[XENON TYPE]

Aiming Adjustment Procedure

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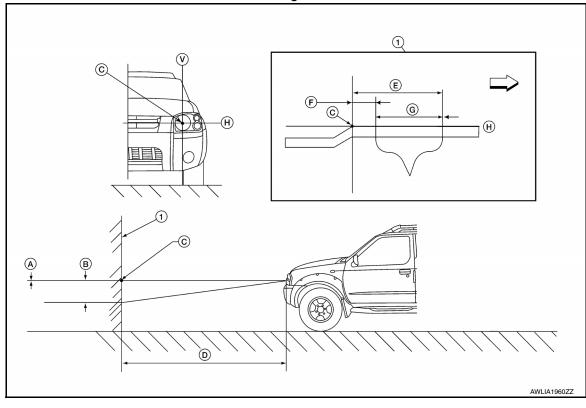
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- 1. Adjustment screen
- C. Headlamp bulb center (H-V point)
- A. Highest cutoff line height

Aim evaluation area

- D. Distance of headlamp aiming screen from vehicle 7.62 m (25 ft)
- B. Lowest cutoff line height
- Maximum aim evaluation distance from vertical center on aiming screen 399 mm (3°R)

- Minimum aim evaluation distance from vertical center on aiming screen 133 mm (1°R)
- V. Vertical aiming evaluation line
- < ☐ Right

H. Horizontal aiming evaluation line

A (Highest cutoff line height)

B (Lowest cutoff line height)

-13.3 mm (0.5 in) 0.1° up 53.2 mm (2.1 in) 0.4° down

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.
- 2. 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.
- 8. 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

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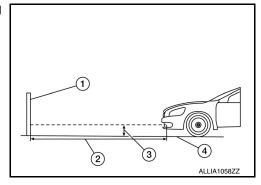
NOTE:

Check the following conditions before performing the aiming adjustment.

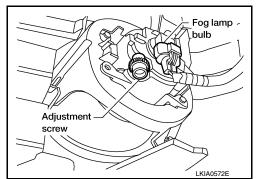
- Keep all tires inflated to correct pressure.
- · Place vehicle on level ground.

Aiming Adjustment

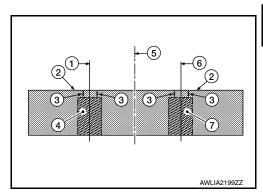
- See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have the driver or equivalent weight placed in driver seat.
- When performing adjustment, if necessary, cover the headlamps and opposite fog lamp.
- 1. Set the distance between the 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



- 2. Turn front fog lamps ON.
- 3. Access adjustment screw from underneath front bumper. Use a suitable tool 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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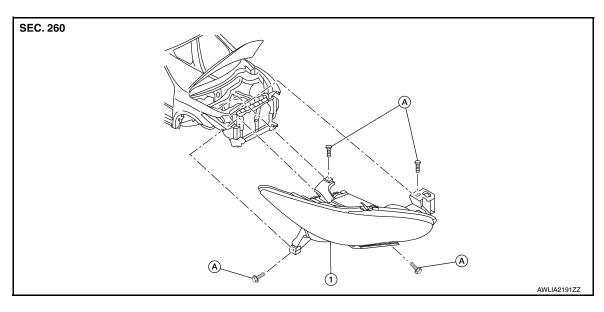
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REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View



1. Front combination lamp

A. Bolt

Removal and Installation

INFOID:0000000009131966

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.
- 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.

[XENON TYPE]

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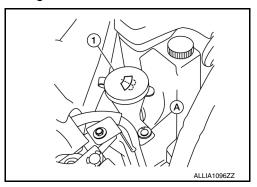
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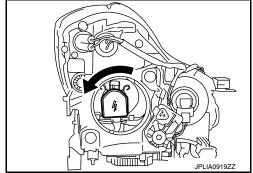
- 1. Release the clips and pawls using a suitable tool and remove hood ledge finisher.
- Remove the washer tank inlet tube clip (A) from the coolant reservoir and pull the washer tank inlet tube (1) from the washer tank (RH only).



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



Installation

Installation is in the reverse order of removal.

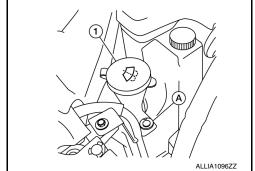
NOTE:

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

PARKING LAMP BULB

Removal

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

Installation

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

Installation is in the reverse order of removal.

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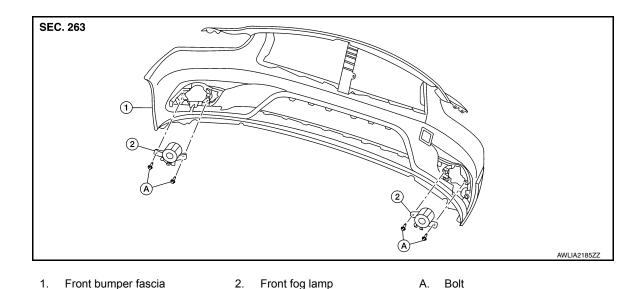
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FRONT FOG LAMP

Exploded View



Removal and Installation

INFOID:0000000009131968

FRONT FOG LAMP

Removal

- Remove bumper fascia. Refer to <u>EXT-17</u>, "Removal and Installation".
- 2. Disconnect the harness connector from the front fog lamp and daytime running lamp (if equipped).
- 3. Remove front fog lamp bolts.
- 4. 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:

Do not touch bulb by hand while it is lit or right after being turned OFF. Burning may result. 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. Partially remove front fender protector. Refer to <u>EXT-28</u>, "FENDER PROTECTOR: Removal and Installation".

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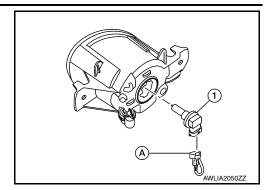
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< REMOVAL AND INSTALLATION >

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



Installation

Installation is in the reverse order of removal.

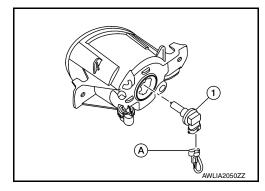
DAYTIME LAMP BULB (CANADA ONLY)

Removal

WARNING:

Do not touch bulb by hand while it is lit or right after being turned OFF. Burning may result. 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. Partially remove front fender protector. Refer to <u>EXT-28</u>, "FENDER PROTECTOR: Removal and Installation".
- 2. Disconnect the harness connector from the front fog lamp (A).
- 3. Rotate bulb (1) counterclockwise and remove.



Installation

Installation is in the reverse order of removal.

[XENON TYPE]

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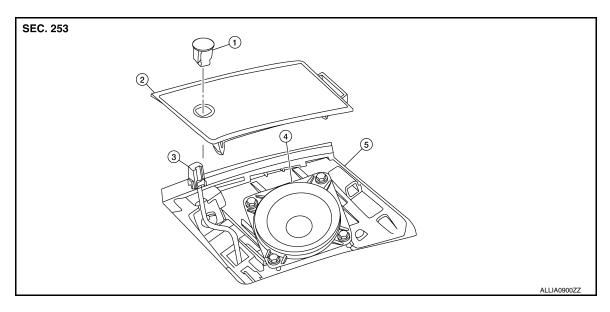
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OPTICAL SENSOR

Exploded View



- Optical sensor
- Instrument panel tweeter grille 3. Optical sensor harness connector (RH)
- 4. Instrument panel tweeter (RH)
- . Instrument panel

Removal and Installation

REMOVAL

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

INSTALLATION

Installation is in the reverse order of removal.

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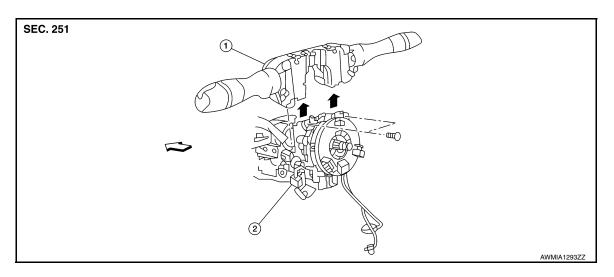
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LIGHTING & TURN SIGNAL SWITCH

Exploded View



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

Removal and Installation

INFOID:0000000009131972

REMOVAL

- 1. Remove the steering wheel. Refer to ST-46, "Removal and Installation".
- 2. Remove the steering column covers. Refer to IP-17, "Removal and Installation".
- 3. Remove the combination switch screws.
- 4. Disconnect the harness connector from the combination switch.
- 5. Remove the combination switch.

INSTALLATION

Installation is in the reverse order of removal.

HAZARD SWITCH

< REMOVAL AND INSTALLATION >

[XENON TYPE]

HAZARD SWITCH

Removal and Installation

INFOID:0000000009131973

The hazard switch is integrated in the multifunction switch. Refer to AV-137, "Removal and Installation - A/C and AV Switch Assembly" (BASE AUDIO), AV-587, "Removal and Installation - A/C and AV Switch Assembly" (BOSE AUDIO W/O SURROUND SOUND), AV-137, "Removal and Installation - A/C and AV Switch Assembly" (BOSE AUDIO WITH SURROUND SOUND) or AV-1056, "Removal and Installation - A/C and AV Switch Assembly" (TELEMATICS SYSTEM).

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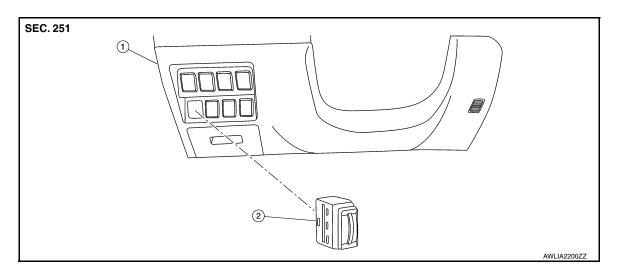
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HEADLAMP AIMING SWITCH

Exploded View



- 1. Instrument lower panel LH
- 2. Headlamp aiming switch
- () Pawl

Removal and Installation

INFOID:0000000009755015

REMOVAL

- 1. Remove instrument lower panel LH. Refer to IP-25, "Removal and Installation".
- 2. While pressing pawls, push the headlamp aiming switch to remove.

INSTALLATION

Installation is in the reverse order of removal.

[XENON TYPE]

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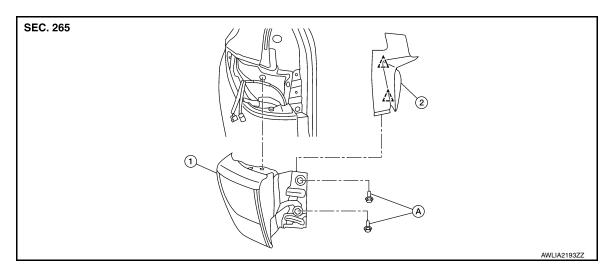
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REAR COMBINATION LAMP

Exploded View



Rear combination lamp
 Clip

Rear combination lamp bolt cover

A. Bolt

Removal and Installation

moval and installation

REAR COMBINATION LAMP

Removal

Release metal clip and pawls using a suitable tool and remove rear combination lamp bolt cover.

- 2. Remove rear combination lamp bolts.
- 3. 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:

Do not touch bulb by hand while it is lit or right after being turned off. Burning may result. 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 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.

Removal

- Remove rear combination lamp. Refer to <u>EXL-169</u>, "Removal and Installation"
- 2. Rotate the rear turn signal lamp socket counterclockwise and remove.
- Remove the bulb from rear turn signal lamp socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing, be sure to install the bulb sockets securely to ensure watertightness.

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HIGH-MOUNTED STOP LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

HIGH-MOUNTED STOP LAMP

Removal and Installation

INFOID:0000000009131976

REMOVAL

1. Remove rear spoiler. Refer to EXT-42, "Removal and Installation".

INSTALLATION

Installation is in the reverse order of removal.

HIGH-MOUNTED STOP LAMP BULB

The high-mounted stop lamp bulb is LED and is serviced as part of the high-mounted stop lamp. Refer to EXL-170, "Removal and Installation"

[XENON TYPE]

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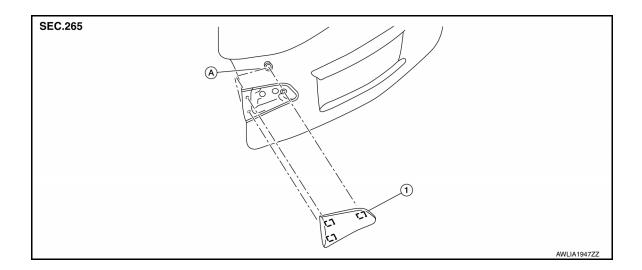
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BACK-UP LAMP

Exploded View



Removal and Installation

INFOID:0000000009131978

BACK-UP LAMP

1. Back-up lamp

Removal

Remove back door lower finisher. Refer to INT-35, "BACK DOOR LOWER FINISHER: Removal and Installation".

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- Disconnect the harness connector from the back-up lamp.
- Remove back-up lamp nuts, and then remove back-up lamp. 3.

Installation

Installation is in the reverse order of removal.

BACK-UP LAMP BULB

WARNING:

Do not touch bulb by hand while it is lit or right after being turned OFF. Burning may result. **CAUTION:**

Nut

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

Removal

- Release pawls using a suitable tool and remove back door trim access panel.
- Rotate back-up lamp socket counterclockwise and remove. 2.
- 3. Remove back-up lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

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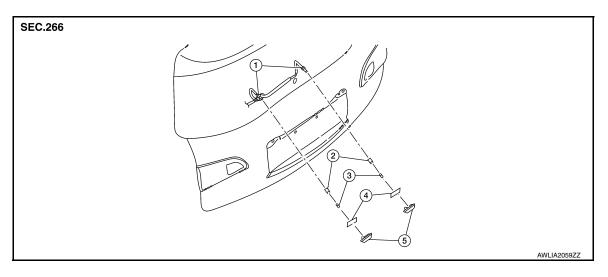
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LICENSE PLATE LAMP

Exploded View



- 1. License plate lamp harness
- 4. License plate lamp gasket
- 2. License plate lamp socket
- 5. License plate lamp
- License plate lamp bulb

Removal and Installation

INFOID:0000000009131980

LICENSE PLATE LAMP

Removal

- 1. Remove back door outer finisher. Refer to EXT-44, "Removal and Installation".
- 2. Release pawls using a suitable tool and remove license plate lamp.

Installation

Installation is in the reverse order of removal.

LICENSE PLATE LAMP BULB

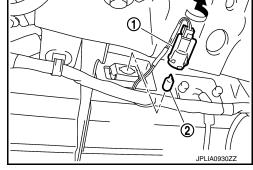
WARNING:

Do not touch bulb by hand while it is lit or right after being turned off. Burning may result. **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 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.

Removal

- 1. Remove back door lower finisher. Refer to INT-35, "BACK DOOR LOWER FINISHER: Removal and <a href="Installation".
- 2. Rotate license plate lamp socket (1) counterclockwise and remove.
- 3. Remove license plate lamp bulb (2) from bulb socket.



LICENSE PLATE LAMP

[XENON TYPE]

Installation is in the reverse order of removal.

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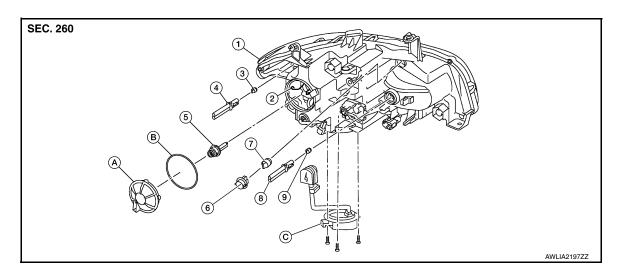
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UNIT DISASSEMBLY AND ASSEMBLY

FRONT COMBINATION LAMP

Exploded View



- 1. Front combination lamp
- 4. Side marker lamp socket
- 7. Front turn signal lamp bulb
- A. Seal packing

- Retaining spring
- Xenon bulb
- 8. Parking lamp socket
- B. Plastic cover

- 3. Side marker lamp bulb
- 6. Front turn signal lamp socket
- 9. Parking lamp bulb
- C. HID control unit and xenon bulb socket

INFOID:0000000009131982

Disassembly and Assembly

DISASSEMBLY

WARNING:

Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.

CAUTION:

- Disconnect the negative battery terminal or remove the fuse.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to 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.

CAUTION:

HID control unit and xenon bulb socket cannot be disassembled.

- Remove front combination lamp. Refer to <u>EXL-160</u>, "Removal and Installation"
- 2. Rotate plastic cover counterclockwise and remove.
- 3. Rotate xenon bulb socket counterclockwise and remove.
- 4. Unlock retaining spring and remove xenon bulb.
- 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.

FRONT COMBINATION LAMP

< UNIT DISASSEMBLY AND ASSEMBLY >

[XENON TYPE]

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

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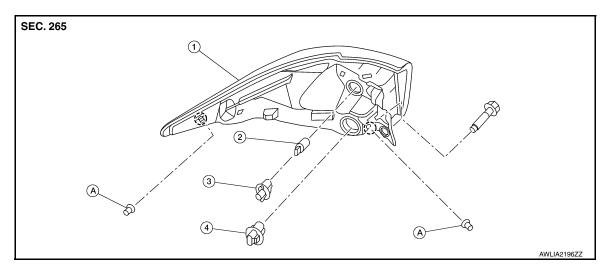
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REAR COMBINATION LAMP

Exploded View



- 1. Rear combination lamp
- 2. Rear turn signal bulb
- 4. Rear LED lamp harness connector A. Grommet

- 3. Rear turn bulb socket
- () Locating pin

Disassembly and Assembly

INFOID:0000000009131984

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

DISASSEMBLY

- 1. Remove rear combination lamp. Refer to EXL-169, "Removal and Installation"
- 2. Rotate the rear turn signal lamp socket counterclockwise and remove.
- 3. 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]

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

	Item	Wattage (W)*
	Headlamp (HI/LO)	35
	Front turn signal lamp	21
Front combination lamp	Parking lamp	5
	Side marker lamp	5
Front fog lamp		55
Day time running lamp (Canada o	nly)	19
	Stop lamp/Tail lamp	LED
Rear combination lamp	Rear turn signal lamp	21
	Side marker lamp	LED
Back-up lamp		18
License plate lamp		5
High-mounted stop lamp		LED

^{*:} Always check with the Parts Department for the latest parts info.

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