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SERVICE DATA AND SPECIFICATIONS (SDS)	
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PRECAUTIONS

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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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

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

Precaution for Work

- 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.
- Oily 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.

PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

(J-46534)

Trim Tool Set

Special Service Tool

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The actual shapes of Kent-Moore tools may differ from those of special service	e tools illustrated here.	
Tool number	Description	
(Kent-Moore No.)		C
Tool name		
_	Removing trim components	

	Removing trim components
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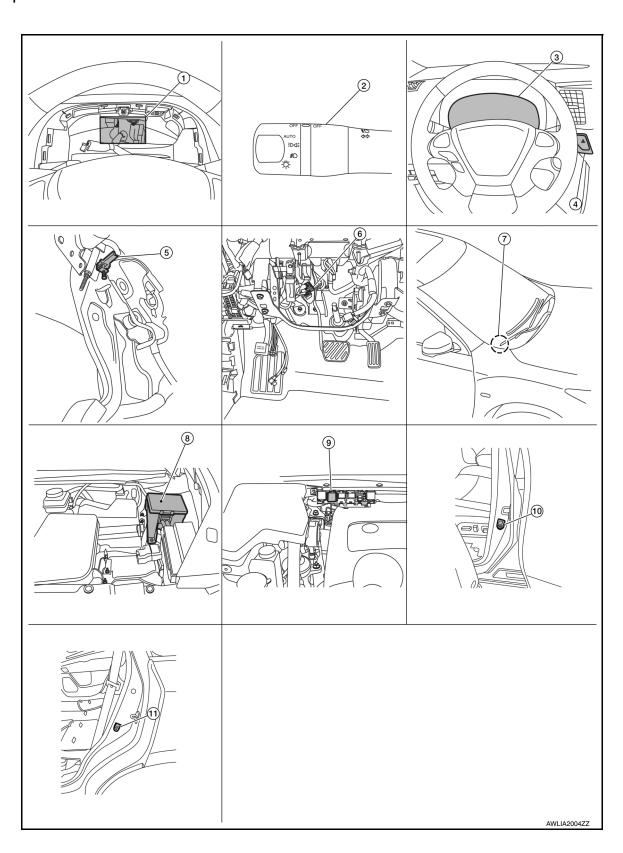
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

- BCM
 (view with combination meter removed)
- 4. Hazard switch
- 7. Optical sensor (if equipped)
- Front door switch LH (RH similar)

- 2. Combination switch (lighting and turn signal switch)
- 5. Parking brake switch
- IPDM E/R, [Headlamp high relay, Headlamp low relay, Taillamp relay, Front fog lamp relay (if equipped)]
- 11. Rear door switch LH (RH similar)

- 3. Combination meter
- 6. Stop lamp switch
- 9. Daytime light relay (if equipped)

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Component Description

Part	Description
BCM	Controls the exterior lighting system.
Combination switch (Lighting & turn signal switch)	Refer to BCS-8, "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 door switch LH/RH	Transmits the deer open signal to the DCM to encrete the cutalight eveters
Rear door switch LH/RH	Transmits the door open signal to the BCM to operate the autolight system.
Optical sensor (if equipped)	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 daytime light system.
Hazard switch	Inputs the hazard switch signal to BCM.

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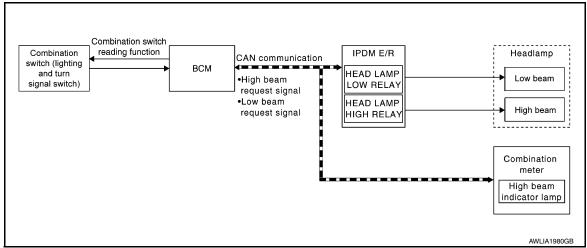
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SYSTEM HEADLAMP SYSTEM

HEADLAMP SYSTEM: System Diagram

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HEADLAMP SYSTEM: System Description

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LOW BEAM OPERATION

When the lighting switch is in the AUTO (if equipped and activated) or headlamp 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 AUTO (if equipped and activated) or headlamp 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.

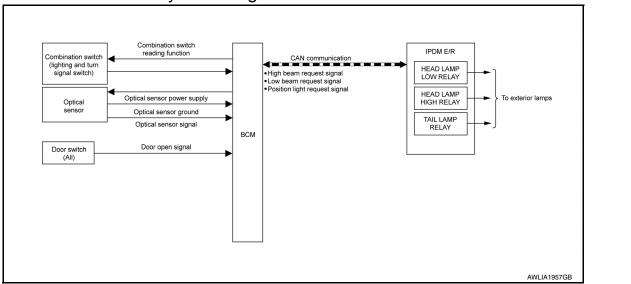
EXTERIOR LAMP BATTERY SAVER CONTROL

With the combination switch (lighting and turn signal switch) in the AUTO (if equipped and activated) parking lamp or headlamp 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 45 seconds, unless the lighting switch position is changed. If the lighting switch position is changed, then the headlamps are turned off.

AUTO LIGHT SYSTEM

AUTO LIGHT SYSTEM: System Diagram



AUTO LIGHT SYSTEM: System Description

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- 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.

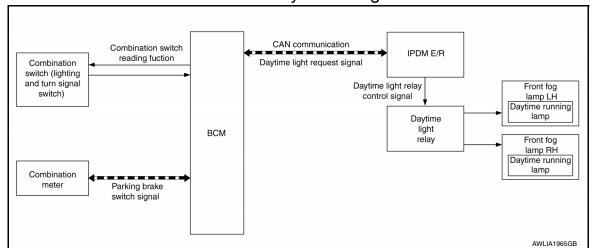
When the lighting switch is in AUTO position, it automatically turns ON/OFF the parking, license plate, tail, front fog lamps and headlamps in accordance with the ambient light. Sensitivity can be adjusted in four steps. For the details of the setting, Refer to <u>BCS-18</u>, "<u>HEADLAMP</u>: <u>CONSULT Function</u> (<u>BCM - HEADLAMP</u>)".

WIPER LINKED AUTO LIGHTING FUNCTION (if equipped)

With the lighting switch in the AUTO position, the BCM will turn on the exterior lamps after detecting 4 operations of the front wiper. The BCM will turn off the exterior lamps 3 seconds after the front wiper switch is turned to the OFF position.

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

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.

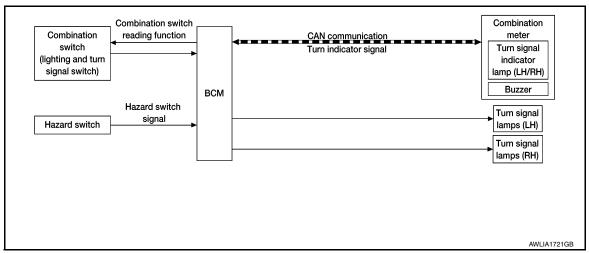
OPERATION

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.

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Diagram

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description

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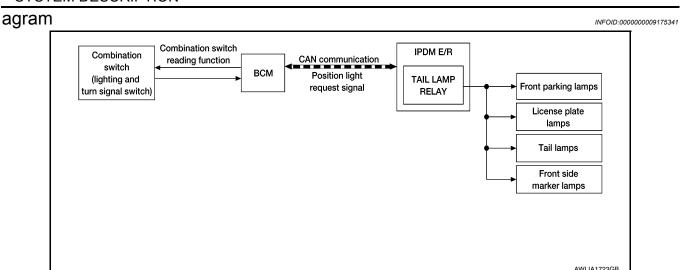
TURN SIGNAL OPERATION

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.

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



PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description INFOID:0000000009175342

PARKING, LICENSE PLATE AND TAIL LAMPS OPERATION

With the lighting switch is in the AUTO (if equipped and activated) or parking lamp position, the BCM receives input requesting the parking lamps to illuminate. 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.

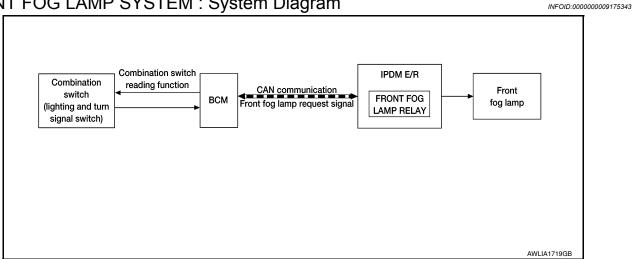
EXTERIOR LAMP BATTERY SAVER CONTROL

With the combination switch (lighting and turn signal switch) in the AUTO (if equipped and activated) or parking lamp position and the ignition switch is turned from ON or ACC to OFF, the battery saver feature is acti-

Under this condition, the exterior lamps remain illuminated for 45 seconds 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

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.

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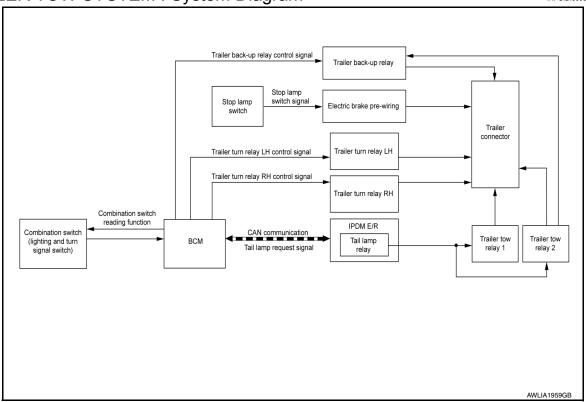
FRONT FOG LAMP OPERATION

When the lighting switch position is in the AUTO (if equipped and activated) or headlamp, and the front fog lamp position, the BCM detects front fog lamp signal and then sends a front fog lamp request ON signal via the CAN communication lines to the IPDM E/R. The IPDM E/R then turns ON the front fog lamp relay sending power to the front fog lamps.

TRAILER TOW SYSTEM

TRAILER TOW SYSTEM: System Diagram

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TRAILER TOW SYSTEM: System Description

INFOID:0000000009175346

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 AUTO (if equipped and activated) or parking lamp position, the BCM detects the lighting switch signal and then 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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000009764001

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	ВСМ	×	×			×	×	×
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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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Direct Diagnos				Diagnosti	ic 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:0000000009764002

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]		
TAIL LAMP SW [On/Off]		
HI BEAM SW [On/Off]		
HEAD LAMP SW 1 [On/Off]	Indicates condition of combination switch.	
HEAD LAMP SW 2 [On/Off]		
PASSING SW [On/Off]		
AUTO LIGHT SW [On/Off]		
FR FOG SW [On/Off]		
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of back door switch.	
OPTI SEN (DTCT) [V]	Indicates outside brightness voltage signal from optical sensor.	
OPTI SEN (FILT) [V]	Indicates outside brightness voltage signal from optical sensor filtered by BCM.	

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].

DIAGNOSIS SYSTEM (BCM)

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INFOID:0000000009764003

< SYSTEM DESCRIPTION >

WORK SUPPORT

Support Item	Setting	Description	
TWILIGHT ON	MODE2*	Autolamp function ON.	
I WILIGHT ON	MODE1	Autolamp function OFF.	
	MODE4	This mode is not used.	
WIPER LINK	MODE3*	Wiper link function operates in INT, LOW and HI.	
WIFER LINK	MODE2	Wiper link function operates in LOW and HI.	
	MODE1	Wiper link function OFF.	
	MODE4	Less sensitive than normal setting (turns ON later).	
CUSTOM A/LIGHT SETTING	MODE3	More sensitive than MODE2.	
COSTON A/LIGHT SETTING	MODE2	More sensitive than normal setting (turns ON earlier).	
	MODE1*	Normal setting.	
	MODE 8		
	MODE 7		
	MODE 6		
ILL DELAY SET	MODE 4	Autolomo dolov timor	
ILL DELAY SET	MODE 5	Autolamp delay timer.	
	MODE 3		
	MODE 2		
	MODE 1*		

^{*:} Initial setting

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → 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

DATA MONITOR		EXL
Monitor Item [Unit]	Description	
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	M
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.	N
TURN SIGNAL R [On/Off]	Indicates condition of turn cional 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.	0
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.	
RKE-UNLOCK [On/Off]	Indicates condition of unock signal from Intelligent Key.	P
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].

EXL-15 Revision: May 2013 2014 Pathfinder

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000009764005

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> "Component Function Check".
- When auto active test mode has to be cancelled halfway through test, turn ignition switch OFF.
- 1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)
- 2. Turn ignition switch OFF.
- 3. Turn the ignition switch ON, and within 20 seconds, press the front door switch LH 10 times. Then turn the ignition switch OFF.
- 4. 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

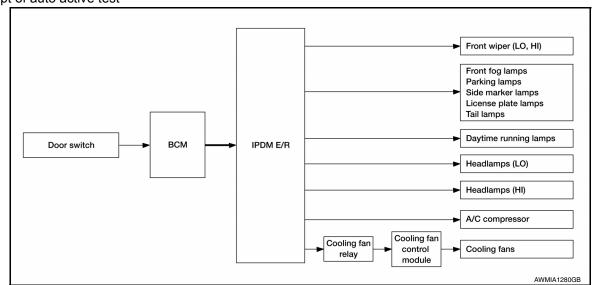
When auto active test mode is actuated, the following operation sequence is repeated 3 times.

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.

< SYSTEM DESCRIPTION >

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 relay Cooling fan relay Harness or connectors between IPDM E/R and cooling fan relay IPDM E/R

CONSULT Function (IPDM E/R)

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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.

< SYSTEM DESCRIPTION >

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	

< SYSTEM DESCRIPTION >

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

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-17. "CAN Diagnostic Support Monitor".

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BCM, IPDM E/R

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:0000000009175352

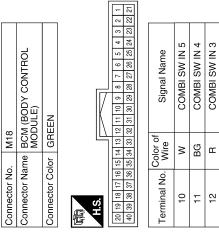
ECU	Reference
	BCS-30, "Reference Value"
DOM	BCS-50, "Fail Safe"
BCM	BCS-50, "DTC Inspection Priority Chart"
	BCS-52, "DTC Index"
	PCS-12, "Reference Value"
IPDM E/R	PCS-19, "Fail Safe"
	PCS-20, "DTC Index"

< WIRING DIAGRAM > **WIRING DIAGRAM** Α **HEADLAMP** Wiring Diagram INFOID:0000000009175353 В ⟨VD⟩:WITH AROUND VIEW MONITOR ⟨VK⟩:WITHOUT AROUND VIEW MONITOR IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE MODULE (E119), (E121), (E217) TO CAN SYSTEM - WITH AROUND VIEW MONITOR SYSTEM CAN SYSTEM AROUND VIEW MONITOR SYSTEM - WITHOUT SYSTEM - WITHOUT SYSTEM CAN SYSTEM C C JOINT CONNECTOR-E12 (E45) JOINT CONNECTOR-E14 E70 D IGNITION RELAY-1 E152 M31 w Е JOINT CONNEC-TOR-E15 (E71) V68 CPU F JOINT CONNECTOR-B09 (B11) JOINT CONNECTOR-B10 B12 LOW BEAM JOINT CONNECTOR-B12 (B17) JOINT CONNECTOR-B11 (B16) Н ⊕ HIGH BEAM 15A 36 HEADLAMP LOW RELAY E152 FRONT COMBINATION LAMP LH (E232), (E233) -w (B32 <u>₽</u> <u>®</u>-19 JOINT CONNECTOR-M18 (M41) JOINT CONNECTOR-M17 (M43) J LOW 34 4 HEADLAMP HIGH RELAY © HIGH BEAM Κ 10A ىق 17 (M84 COMBI-NATION METER M24 FUSE BLOCK (J/B) (M3), (M4) EXL IGNITION SWITCH ON OR START UNIFIED METER CONTROL UNI 31 32 M - Table 1 BCM (BODY CONTROL MODULE) (M18), (M19), (M81) - W22 Ν COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) HI BEAM (BLUE) 0 ₹-HEADLAMP Р E152 M31 \$ 0 BATTERY

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HEADLAMP CONNECTORS





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	>	BG	Œ	Э	۵
Terminal No. Wire	10	11	12	13	14

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

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	4	24	
	5	25	
	9	26	
	7	27	
	œ	35 34 33 32 31 30 29 28 27 26 25 24	
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	12	32	
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暦マー	20	40	
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t	27 26 25 24 23 22							
2	6 25	Signal Name		١			١.	_
o -	2	l è	GND1	GND2	z	Η.	CAN-L	CAN-H
`	27	=	ΙĒ	ΙĒ	IGN	BAT	Ιŧ	A
	28	l g	ര	ര	_		O	C
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2	30							
Ξ	31							
71	32							
2	33	g a			(15	_		
ŧ	34	Color of Wire	Ф	В	BG	≥	Д.	-
2	35	ŏ_						
2	36	<u>o</u>						
-	37	=						
2	38	na L	-	N	21	22	88	96
2	39	Ē		'	"	-	("
20 12 10 17 10 13 14 13 17 10 2	40 39 38 37 36 35 34 33 32 31 30 29 28	Terminal No.						

or No.	M4
or Name	r Name FUSE BLOCK (J/B)
or Color	WHITE
7 16P	7P 6P 5P 4P 3P 2P 1P 16P 15P 14P 13P 12P 11P 10P 9P 8P

	Signal Name	1	1
	Color of Wire	BG	×
H.S.	Terminal No. Wire	8P	13P

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

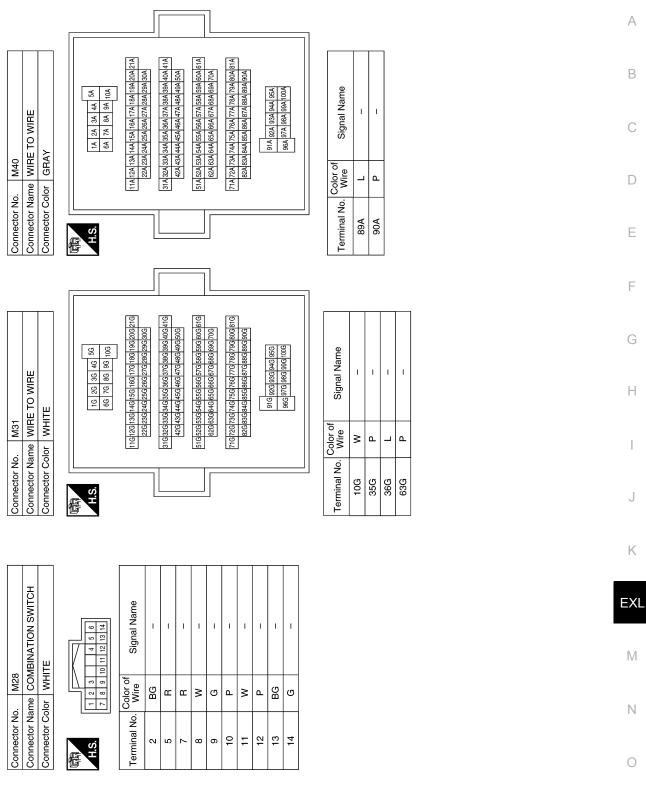
Signal Name	-	
Color of Wire	M	
Terminal No.	N9	

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	Œ	ŋ	8
Terminal No.	29	09	70	75	9/	77	78	62
						•		

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ပိ	Connector No.	ect	ö	ž		_	M19	6										
ပိ	Connector Name BCM (BODY CONTROL MODULE)	ect	o	Na	me	~~	BCM (BOE MODULE)	ΣĞ	E(B(<u>></u>	00	Ž	Ĕ	OL			
ပိ	Connector Color BLACK	ect	or	ပိ	lor	_	BL	AC	X									
€ ₹	H.S.	(6)							IN.	IV	117							
8	29	28	57	59 58 57 56 55 54	53	54	53 52 51 50 49 48 47 46 45 44 43 42	25	5	20	64	84	47	46	45	44	43	4
8	80 79 78 77 76 75 74 73 72 71 70 69 68 67 66	78	77	9/	75	74	73	72	71	20	69	89	29	99	65 64	64	63 62	62

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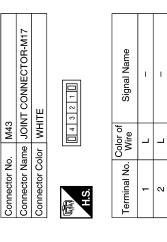
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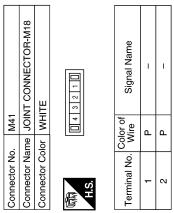
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Revision: May 2013 EXL-23 2014 Pathfinder

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

BCM (BODY CONTROL MODULE)	ITE	143 142 141 140 138 138 148	Signal Name	BAT BCM FUSE	GND 2	BAT POWER F/L	GND 1
me BCI MO	lor WHITE	137136135	Color of Wire	≯	В	×	В
Connector Name	Connector Color	南南 H.S.	Terminal No.	131	134	139	143





	JOINT CONNECTOR-E12	JE	8 7 6 5 4 9 2 1	Signal Name	ı	_	_	-
. E45		lor BLUE	12 11 10 9 8	Color of Wire	_	_	Ь	Ь
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1	4	2	10

	JOINT CONNECTOR-M36	ТЕ	4 3 2 1 1	Signal Name	1	ı
. M181		lor WHITE	4	Color of Wire	>	×
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1	2

	I	I	1	2 1	18 17			
	E TO WIRE	<u> </u>		12 11 10 9 8 7 6 5 4 3	30 29 28 27 26 25 24 23 22 21 20 19 18	Signal Name	I	ı
. M84	me WIF	lor WHITE		15 14 13 1	31 30 29 2	Color of Wire	_	۵
Connector No.	Connector Name WIRE TO WIRE	Connector Color		16	32	Terminal No. Wire	17	ά

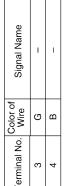
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MO (MO)	Signal Name	В
	Color of Wire Silving	D
Connector No. Connector Name Connector Color Terminal No. 28 29 41 43	100 100 100 100 100 100 100 100 100 100	Е
		F
TOR-E15	1G 6G 14G 13G 13G 13G 13G 13G 13G 13G 13	G
E71 JOINT CONNECTOR-E15 BLACK or of Signal Name L L L L	## TO WIRE 170 WIRE 180	Н
	Name WIRE	I
Connector No. Connector Name Connector Color H.S. 1 1 2	Connector No. Connector Name Connector Color H.S. #16	J
		K
E70 JOINT CONNECTOR-E14 BLACK Strong Signal Name	E121 IPDM E/R (INTELLIGENT MODULE ENGINE ROOM) WHITE or of Signal Name GND (POWER)	EXL
Color of PP		M
nector No nector Na nector No nector Co Co 1 1 2 2 2	nector No nector No nector No 7	N
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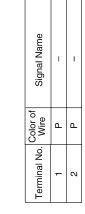
Connector No.	E233
Connector Name	Connector Name FRONT COMBINATION LAMP LH
Connector Color	BLACK

(C)	Signal Name	ı	
	Color of Wire	g	
- 6	inal No.	3	

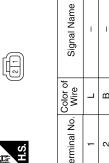


Sign			
Color of Wire	Ö	В	
Terminal No.	3	4	





E232	Connector Name FRONT COMBINATION LAMP LH	BLACK
Connector No.	Sonnector Name	Connector Color BLACK











Color o Wire	٦	В	
Terminal No.	Į.	7	

Connector No.	Connector Name	Connector Color	

H.S.	

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	ONT COMBINATION
	NTC



Signal Name	-	1	
Color of Wire	В	В	
ninal No.	-	2	

tor No. E217	tor Name POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Color WHITE
Connector No.	Connector Name	Connector Color





Signal Name	HEADLAMP LO RH	HEADLAMP LO LH	HEADLAMP HI RH	HEADLAMP HI LH
Color of Wire	В	Т	M	g
Terminal No.	75	92	80	81

Connector No. E237
Connector Name FRONT CON Connector Color BLACK





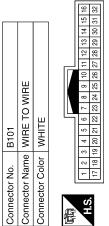
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Connector No. B16 Connector Name JOINT CONNECTOR-B10 Connector Name JOINT CONNECTOR-B11 JOINT CONNEC	Connector N Connector C Connector C H.S.	Terminal No 1	Terminal N	Е
Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color WHITE Connector Name WIRE TO WIRE Connector Name Connector Name 16 19 N M M M M M M M M M M M M M M M M M M				F
Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color WHITE Connector Name WIRE TO WIRE Connector Name Connector Name 16 19 N M M M M M M M M M M M M M M M M M M	TOR-811	ame	44 (34) (34) (34) (34) (34) (34) (34) (3	G
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Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Name JOINT CONNECTOR-B10 Connector Name WHRE TO WIRE Connector No. B32 Connector No. Wire	Vo. B16 Name JOIN Color WHI	Color of Wire	No. B69 Vame WIRE Solor GRA 11/4/40A/39A 61/4/40A/39A 61/4/80A/79A 81/4/80A/79A	I
Connector No. B12 Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color of Signal Name L L L L L L L L L	Connector Connector Connector (H.S.	Terminal N	Connector P Connector P H.S.	J
Connector No. B12 Connector Name JOINT CONNECTOR Connector Color WHITE Terminal No. Wire Signal Name Terminal No. Wire Sig			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	K
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	Connector Connector Connector	Terminal N	Connector Connector Connector Terminal N 18 19	0
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Signal Name	ı	1
Color of Wire	Γ	Ь
Terminal No.	18	19

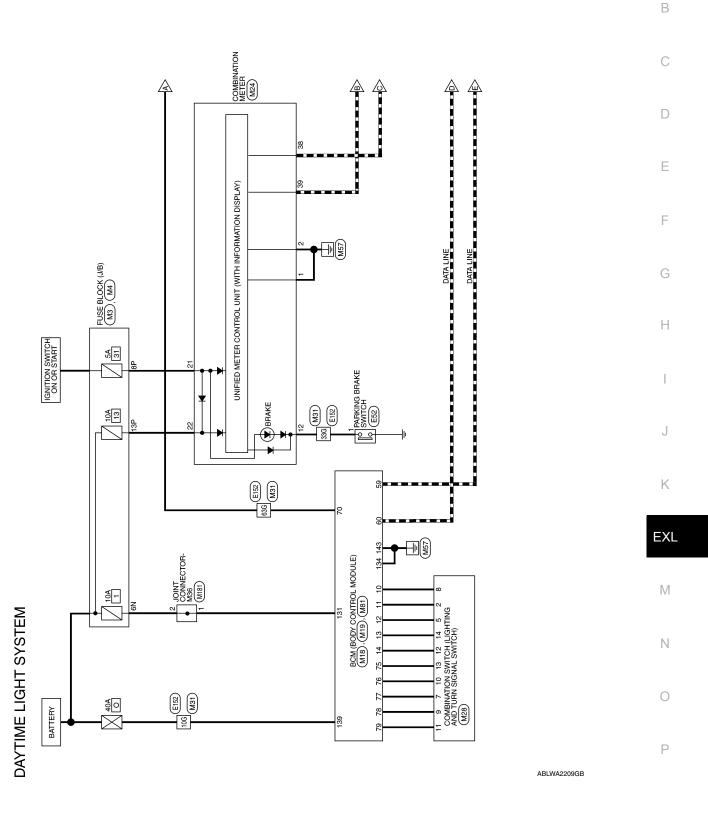


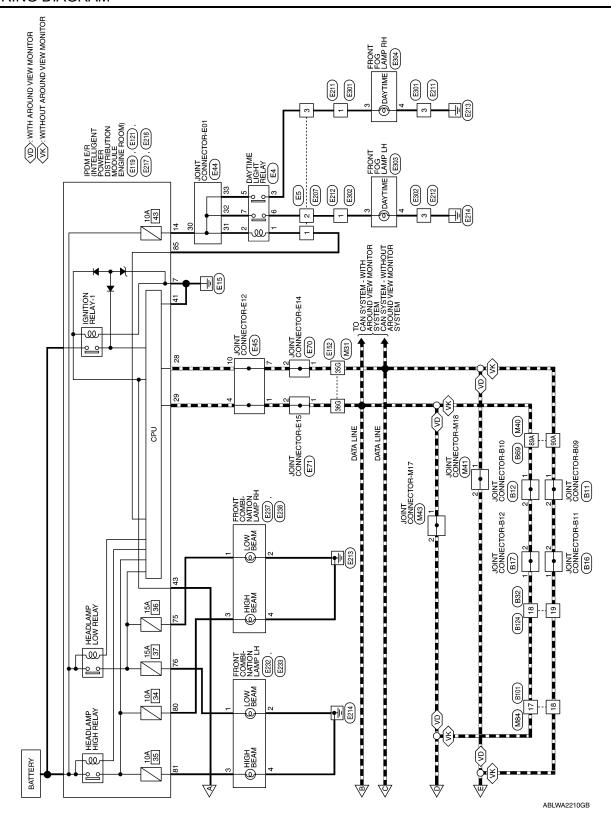
Signal Name	1	1
Color of Wire	_	Ь
Terminal No.	17	18

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Wiring Diagram

NFOID:000000009175354





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

5 5 4

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M18

DAYTIME LIGHT SYSTEM CONNECTORS

					3 2 1 23 22 21				
8	Connector Name BCM (BODY CONTROL	MODULE)	EEN		11 10 9 8 7 6 5 4 31 30 29 28 27 26 25 24	Signal Name	COMBI SW IN 5	COMBI SW IN 4	
M	me BCI	2	or GR		15 14 13 35 34 33	Color of Wire	≥	BG	
Connector No. M18	Connector Na		Connector Color GREEN	原 H.S.	20 19 18 17 16 15 14 13 12 40 39 38 37 36 35 34 33 32	Terminal No. Wire	10	1	
			7						1
	Connector Name FUSE BLOCK (J/B)	TE	!	7P 6P 5P 4P 3P 2P 1P 6P 1SP 14P 13P 12P 11P 9P 8P		Signal Name	1	ı	
Ψ	ne FUS	or WHI		7P 6P 5P 4P		Color of Wire	BG	>	
Connector No. M4	Connector Na	Connector Color WHITE		H.S.		Terminal No. Wire	В	13P	
			7					1	
	SE BLOCK (J/B)	ITE		3N		Signal Name	ı		
. M3	me FU	lor		N N		Color of Wire	Μ		
Connector No. M3	Connector Name FUSE BLOCK (Connector Color WHITE		用.S.		Terminal No. Wire	N9		

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

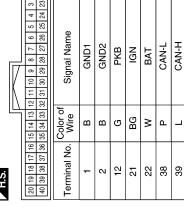
BCM (BODY CONTROL MODULE)

Connector Name Connector Color

M19

Connector No.

BLACK



	42 41 62 61									
	52 51 50 49 48 47 46 45 44 43 4 72 71 70 69 68 67 66 65 64 63 6	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	COMBLSW OUT 1
	55 54 53 75 74 73	Color of Wire	۵	_	۵	BG	Ь	æ	တ	>
原列 H.S.	60 59 58 57 56 80 79 78 77 76	Terminal No.	59	09	70	75	92	77	78	62

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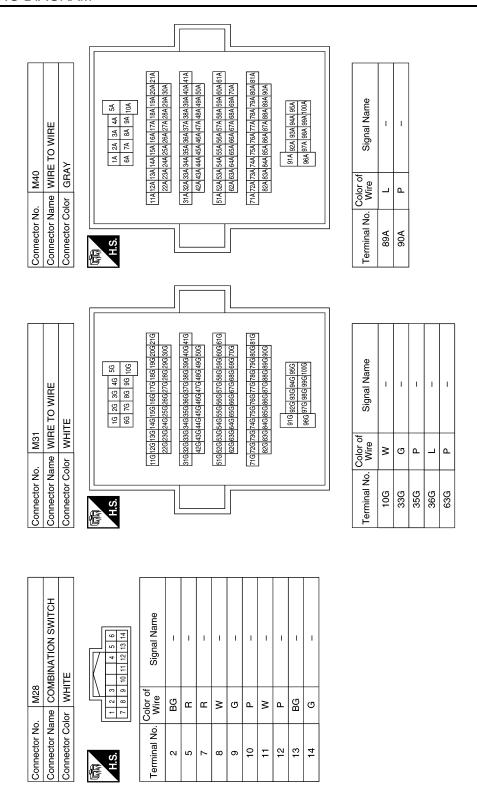
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1	Connector Name BCM (BODY CONTROL MODULE)	нте	142 142 141 140 139 138	Signal Name	BAT BCM FUSE	GND 2	BAT POWER F/L	GND 1
M81	ne BC MC	or WH	143 142	Color of Wire	≥	В	≥	В
Connector No.	Connector Nar	Connector Color WHITE	H.S.	Terminal No. Wire	131	134	139	143
		7						
	CONNECTOR-M17		2 1 0	Signal Name	ı	ı		

Connector Color WHITE

Connector Name JOINT

Connector Name | JOINT CONNECTOR-M18

M41

Connector No.

Connector Color WHITE

Connector No.

4 3

Color of Wire _

Terminal No.

Signal Name ı

Color of Wire ₾ ۵

Terminal No.

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		Connector Name DAYTIME LIGHT RELAY	ROWN
	Connector No. E4	Connector Name D/	Connector Color BROWN
	M181	Connector Name JOINT CONNECTOR-M36	WHITE
	Connector No. M181	Connector Name	Connector Color WHITE
	M84	or Name WIRE TO WIRE	WHITE
	tor No. M84	or Name	or Color WHITE

Connector No. M84	o. M8	4		Connector No. M181	M18	-	Connector No.	E4
Connector Name WIRE TO WIRE	ame WIF	RE TO WIRE		Connector Nam	lol an	Connector Name JOINT CONNECTOR-M36	Connector Name DAYTI	ne DAYT
Connector Color WHITE	olor Wh	ІТЕ		Connector Color WHITE	r WHI	ТЕ	Connector Color BROW	or BRO
H.S.	16 15 14 13 12 11 32 31 30 29 28 27	14 13 12 11 10 9 8 7 6 5 4 3 2 1 10 18 17 20 20 20 20 20 20 20 20 20 20 20 20 20	<u></u>	H.S.	4	4 3 2 1 0	 H.S.	2 9
Terminal No. Wire	Color of Wire	Signal Name		Terminal No. Wire	Solor of Wire	Signal Name	Terminal No. Wire	Color of Wire
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18	Д	ı		2	Μ	ı	2	ย

Signal Name

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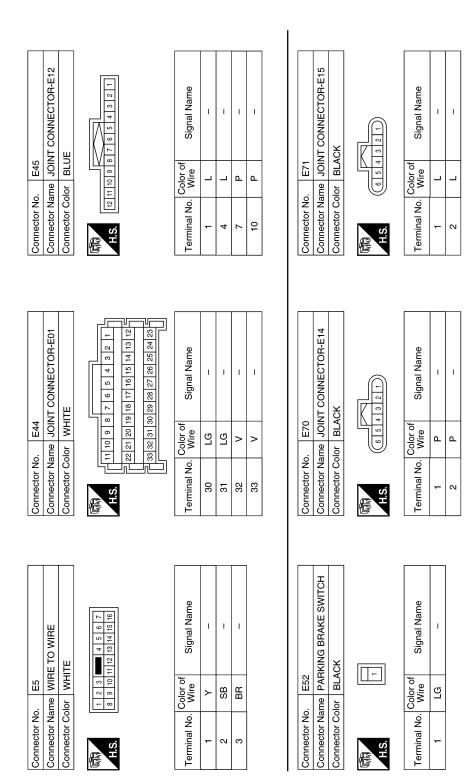
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Connector No. E119 Connector No. E121 Connector Color WHITE Connector Color WHITE Connector No. E122 Connector No.	Connector No. E207 Connector Name WIRE TO WIRE Connector Color WHITE	A B C D
POWER DISTRIBUTION WOULE ENGINE ROOM) WHITE Signal Name Terminal No. WHE TO WIRE Signal Name Terminal No. Wire Signal Name Signal Name Terminal No. Wire Signal Name Terminal Name	Signal Name Signal Name Signal Name	
F119		I
F119 POWER LIGENT POWER DISTRIBUTION WHITE POWER DISTRIBUTION WHITE Signal Name CAN-H	Connecto Connecto	J
· —	PDM E/R (INTELLI	M N

Revision: May 2013 EXL-35 2014 Pathfinder

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	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	WHITE	75 76 78 81	Signal Name	HEADLAMP LO RH	HEADLAMP LO LH	HEADLAMP HI RH	HEADLAMP HI LH
. E217		-	77 78	Color of Wire	œ	_	≥	g
Connector No.	Connector Name	Connector Color	呵动 H.S.	Terminal No.	75	9/	80	81
O	0	0						
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Connector No.	. E233	3
Connector Name		FRONT COMBINATION LAMP LH
Connector Color		BLACK
H.S.		£ 4 4
Terminal No.	Color of Wire	Signal Name
8	g	ı
4	В	ı

2	RE TO WIRE	АҮ	2 4 P	Signal Name	I	-
. E212	me WIF	lor GRAY		Color of Wire	۵	В
Connector No.	Connector Name WIRE TO WIRE	Connector Color	所 H.S.	Terminal No. Wire	1	3

Connector No.). E232	2
Connector Name		FRONT COMBINATION LAMP LH
Connector Color	olor BLACK	CK
向 H.S.		
Terminal No. Wire	Color of Wire	Signal Name
-	-	ı
2	В	ı

Connector No.	E211	-
Connector Name WIRE TO WIRE	ıme WIF	RE TO WIRE
Connector Color	lor GRAY	AY
原 开.S.		\(\begin{align*}
Terminal No.	Color of Wire	Signal Name
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8	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	ITE	22 83 84 86 86 87 88 89 90 91 92 90 94 95 96 97	Signal Name	DTRL RLY
. E218		lor WH	82 83 84 90 91 92	Color of Wire	Ь
Connector No.	Connector Name	Connector Color WHITE	原列 H.S.	Terminal No.	85

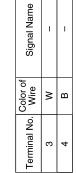
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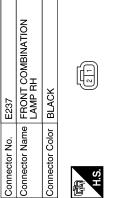
DAYTIME LIGHT SYSTEM

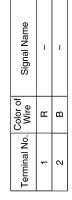
	Connector No.	E301
IBINATION	Connector Name	Sonnector Name WIRE TO WIRE
	Connector Color GRAY	GRAY

8	Signal Name	1	1
=)	Color of Wire	ГG	В
	Terminal No.	1	3

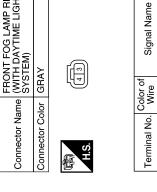






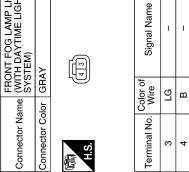


	FRONT FOG LAMP RH (WITH DAYTIME LIGHT SYSTEM)		
E304	FRONT FOC (WITH DAY SYSTEM)	GRAY	
Connector No.	Connector Name	Connector Color GRAY	

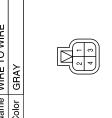


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E303	Connector Name (WITH DAYTIME LIGHT SYSTEM)	GRAY	
Connector No.	Connector Name	Connector Color GRAY	



Connector No.	E302
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color GRAY	GRAY



Signal Name	1	1	
Color of Wire	ГG	В	
Terminal No.	-	3	

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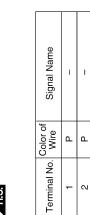
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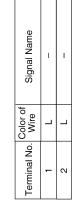
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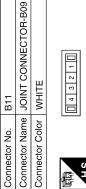
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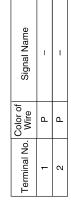
B16 JOINT WHITE
Connector No. B16 Connector Name JOINT CONNECTOR-B11 Connector Color WHITE

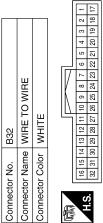






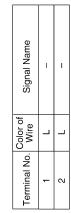






Connector Name WIRE TO WIRE	Connector Color WHITE	16 15 14 13 12 11 10 9	32 31 30 29 28 27	Terminal No. Wire	18 L	19 P
E TO WIRE	IE	11 10 9 8 7 6 5 4 3	27 26 25 24 23 22 21 20 19	Signal Name	ı	1

	Connector Name JOINT CONNECTOR-B12	ITE	
Connector No. B17	nector Name JOIN	Connector Color WHITE	
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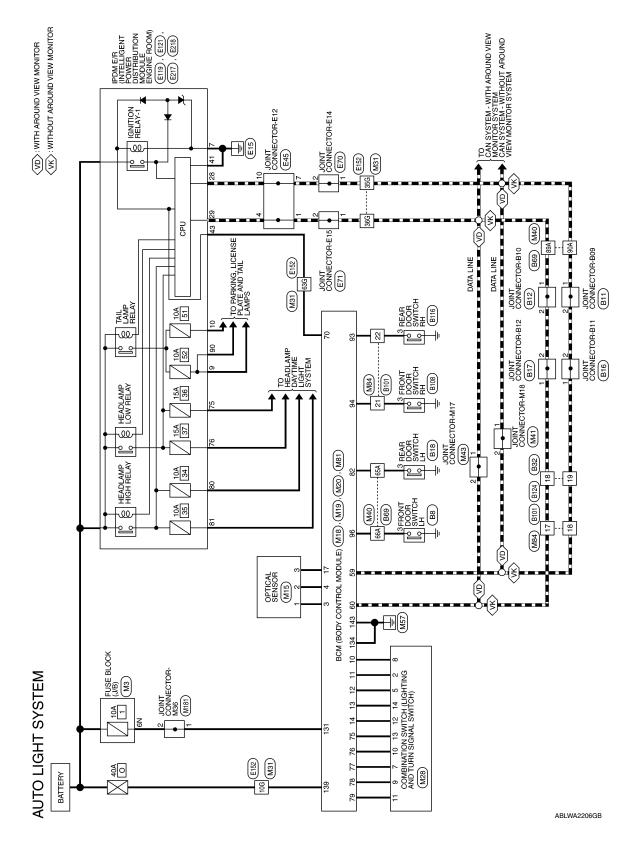
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Connector No. B101	Olor WHITE	_	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		
Connector No.	Connector Color		Terminal No.		
Signal Name	1	1			
Color of Wire	7	۵			
Terminal No.	89A	90A			
Connector No. B69	Connector Color GBAV	_	5A 4A 3A 2A 1A 10A 9A 8A 7A 6A 21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A 30A 29A 28A 27A 26A 25A 24A 23A 22A 41A 40A 39A 39A 37A 36A 35A 34A 33A 32A 31A 50A 49A 49A 47A 46A 45A 44A 43A 42A 61A 60A 59A 39A 67A 66A 65A 5A 63A 52A 5A 5A 70A 69A 69A 67A 66A 65A 5A 64A 63A 62A 81A 60A 77A 776A 77A 77A 77A 77A 77A 77A 77A 7	Connector No. B124 Connector Name WIRE TO WIRE Connector Color WHITE Li 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 13 20 21 22 23 24 25 5 27 28 23 30 31 32	Terminal No. Wire Signal Name 18 L

Revision: May 2013 EXL-39 2014 Pathfinder

Wiring Diagram



Connector Name | BCM (BODY CONTROL | MODULE)

M18

Connector No.

Connector Color | GREEN

Signal Name

Color of Wire

Terminal No.

Signal Name

Color of Wire ≥

Terminal No.

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M15	Connector Name OPTICAL SENSOR	WHITE	1 2 3
Connector No. M15	Connector Name	Connector Color WHITE	(南) H.S.
M3	Connector Name FUSE BLOCK (J/B)	WHITE	3N
Connector No. M3	Connector Name	Connector Color WHITE	(南) H.S.

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	4	24		>		١		3	_,	_		
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	9	56	a⊒	占	l₹	>	>	Ν	>	ν	₹	
	7	27	Z	S	<u>ত</u>	S	S	S	S	S	눈	
ᆜ	∞	78	Signal Name	A/L POWER SUPPLY 5V	A/L SIGNAL	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1	GND RF A/L	
/	6	31 30 29	Sign	∣≶	₹	S	lố	8	S	8	তি	
/	11 10	8		Z		Ö	Ö	Ö	Ö	Ö		
\	Ξ	3		-								
1	12	33		4								
\neg	13	34 33	Color of Wire				رم			_		
	4	34	color c Wire	≥	മ	≥	BG	В	മ	Ь	<u>د</u>	
	5	32										
	9	88	ું									
	17	37	<u> </u>									
	19 18 17 16 15	39 38 37 36 35	Terminal No.	3	4	10	=	12	13	4	17	
	9		E									
	20	40	_e									

	M20	Connector Name BCM (BODY CONTROL
	Connector No.	Connector Name

Connector Name BCM (BODY CONTROL MODULE)	>-	87 66 85 84 83 82 81 83 82 84 83 83 84 84 83 84 84 84 84 84 84 84 84 84 84 84 84 84	Signal Name	RL DOOR SW
me BCM (BOI MODULE)	or GRAY	92 91 90 89 88 87 104 100 99	Color of Wire	>
Connector Nar	Connector Color	原本 H.S.	Terminal No.	82

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	Γ	Ь	BG	۵	В	В	Μ
Terminal No.	59	09	70	75	9/	77	78	62

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			45	65
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8			48	89
`_			49	69
임때			20	70
@ <u></u> 5	X		51	71
돌의	AC		52	72
881	В		23	73
n)	_		54	74
Ĕ	jo		55	75
ž	ပိ		99	9/
ö	or		29	<i>LL</i>
act	ect	16	28	78
Ě	ŭ		69	6/
ပိ	Co		09	80
	Connector Name BCM (BODY CONTROL MODULE)	Connector Name BCM (BODY CONT MODULE) Connector Color BLACK	Connector Name BCM (BODY CONT MODULE) Connector Color BLACK	Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK H.S. (R)

Connector No.	ľ	ect	or	Š		_	M19	6	l									
Connector Name BCM (BODY CONTROL MODULE)	Ľ	ect	ō	Za	m.		l‰≥	BCM (BOE MODULE)	۱ <u>ĕ</u> Ξ		<u>-</u>	18	Į	Ě	ᅵᅥ			
Connector Color BLACK	Ĕ	ect	ō	ပိ	ō	F	ᆸ	18	Ϊ́									
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1	4	3					Ħ	$ \rangle$	١	V	17							
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8	80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 63	78	22	9/	75	74	73	72	71	20	69	89	67	99	65	64	63	9

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EXL-41 2014 Pathfinder Revision: May 2013

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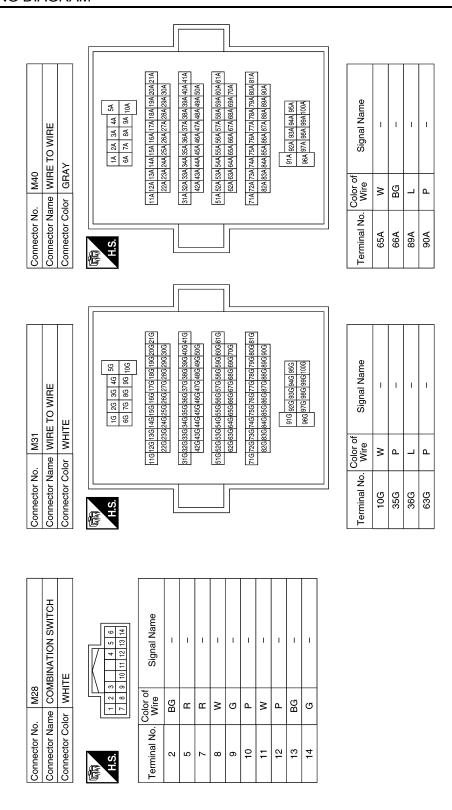
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	Connector No.	. M81	
R-M17	Connector Nar	me BCN MOI	Connector Name BCM (BODY CONTROL MODULE)
	Connector Color WHITE	lor WH	ITE
	是 H.S.	137136135	194 190 138 138 138
	Terminal No. Wire	Color of Wire	Signal Name

<u> </u>	Connector Name BCM (BODY CONT	HTE		f Signal N	BAT BCM	GND	BAT POW	GND	
. M81	me BC	lor	137136	Color of Wire	>	<u>a</u>	≥	В	
Connector No.	Connector Na	Connector Color WHITE	原 H.S.	Terminal No. Wire	131	134	139	143	
		\neg							
	Connector Name JOINT CONNECTOR-M17	<u> </u>	2 1	Signal Name	ı	I			
M43	e JOIN	- -	4 3 2	Color of Wire	_	7			
Connector No.	Connector Name JOINT C		南 H.S.	Terminal No.	٦	2			
	Connector Name JOINT CONNECTOR-M18	1	[4 3 2 1]	Signal Name	1	ı			
M41	Jol 7	- -	4	Color of Wire	۵	۵			
Connector No.	Connector Name JOINT C		国动 H.S.	Terminal No.	-	7			

E45	Connector Name JOINT CONNECTOR-E12	BLUE	10 9 8 7 6 5 4 3 2 1	olor of Signal Name	- 7	-	- -	-
Connector No. E45	Connector Name	Connector Color BLUE	H.S. 12 11 10	Terminal No. Wire	-	4	7	10
Connector No. M181	Connector Name JOINT CONNECTOR-M36	Connector Color WHITE	(国本) 2 1 0 H.S.	Terminal No. Wire Signal Name	- W	2 W -		
Connector No. M84	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. (22 31 30 28 27 26 25 24 23 22 21 20 19 18 17	Terminal No. Wire Signal Name	17 L –	18 P –	21 G –	22 R –

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	H.S. 19 20 21 22 23 24 25 66 27 28 29 30 31 32 33 34	Terminal No. Wire Signal Name	28 P CAN-L	29 L CAN-H	41 B GND (SIGNAL)	43 L IGN SIGNAL	Terminal No. Wira			36G L –	63G L –									
Connector No. E71 Connector Name JOINT CONNECTOR-E15 Connector Color BLACK	Terminal No. Wire Signal Name		2 L –						Connector Color WHITE		56 46 36 26 16	10G 9G 8G 7G	2102001991701166156140130120110 300230280270286250240230220	41 G 40 G 39 G 37 G 38 G 35 G 34 G 32 G 31 G	506/496/436/476/466/456/446/436/426	610 600 630 630 630 630 630 630 63	816806796786776766756746736726716	୍ରପ୍ରଥାନୟ ବ୍ୟବ୍ୟ ପ୍ରଥମ୍ପ ଅଧିକ୍ରୟ ବ୍ୟବ୍ୟ ବ୍ୟ	95G 94G 97G 92G 0100 0100 0100 0100 0100 0100 0100 01	
Connector No. E70 Connector Name JOINT CONNECTOR-E14 Connector Color BLACK LAS (6 5 4 3 2 1)	Terminal No. Wire Signal Name		2 P				Connector No. E121	IPDM E/R (INTELLIGENT Connector Name POWER DISTRIBUTION		Connector Color WHITE		S.	Terminal No. Wire Signal Name	7 B GND (POWER)	9 G TAIL RH	10 L TAILLH				

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lame POWER DISTRIE MODULE ENGIN Solor WHITE ENGIN ENGI	Connector No. B8	(INTELLIGENT Connector Name FRONT DOOR SWITCH LH	ISI HIBU IION Connector Color WHITE	[H.S. 1 2 3 4 4 H.S. 5 6 6 97	gnal Name Terminal No. Wire Signal Name	
20 Nir.		PDM E/R (INTELLIGENT	POWER DISTRIBUTION MODULE ENGINE ROOM)	TE	92 83 94 85 88 89 89 89 89 94 85 86 97	Signal Name	10000
				lor WHIT	82 83 84 8	Color of Wire	

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		Connector No.	. B12			Connector No.	. B16		
-B09		Connector Na	me JOIN	Connector Name JOINT CONNECTOR-B10		Connector Na	me JOII	Connector Name JOINT CONNECTOR-B11	
		Connector Color WHITE	lor WHI	ITE		Connector Color WHITE	lor WH	TE	
					•				
		E	4	3 2 1		E	4	3 2 1	
		H.S.				HS.			
		Terminal No. Wire	Color of Wire	Signal Name		Terminal No. Wire	Color of Wire	Signal Name	
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		2	٦	1		2	Ь	-	

Connector No.	E217
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE
H.S.	74
Terminal No Military	Color of Signal Name

Connector Color WHITE

Connector Name

Terminal No. Wire 75 R 76 L 80 W 81 G R

Terminal No.

Connector No.	. B11	
Connector Na	me JOII	Connector Name JOINT CONNECTOR-B09
Connector Color WHITE	lor WH	ТЕ
画 H.S.	4	3 2 1
Terminal No. Wire	Color of Wire	Signal Name
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Connector No. B32 Connector Name WIRE TO WIRE Connector Color WHITE Connector Signal	Terminal No. Wire Signal Name 18 L – 19 P –	Connector No. B101
Connector No. B18 Connector Name REAR DOOR SWITCH LH Connector Color WHITE	Terminal No. Wire Signal Name 3 SB -	Terminal No. Wire Signal Name 65A SB -
Connector No. B17 Connector Name JOINT CONNECTOR-B12 Connector Color WHITE	Terminal No. Color of Signal Name 1	Connector No. B69

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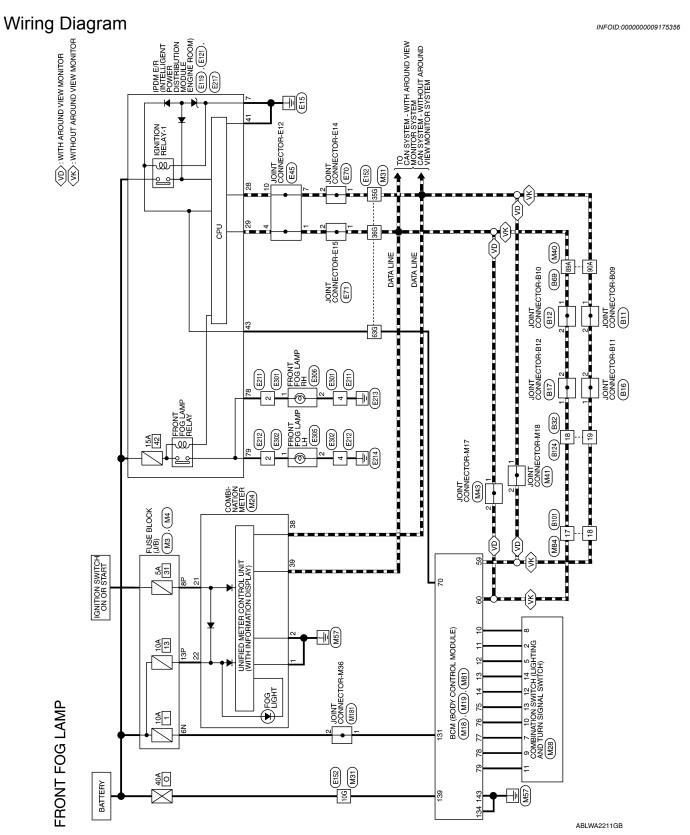
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No. B124 Name WIRE TO WIRE Color WHITE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 12 23 24 25 28 27 28 29 30 31 32 Vo. Wire Color of Roll Color of Color of Signal Name	В
Connector No. B124 Connector Name WIRE TO WIRE Connector Color WHITE To 1 2 3 4 5 6 7 8 9 1 17 18 19 20 21 22 23 24 25 1 2 18 18 18 19 20 21 22 23 24 25 1 2 18 19 20 21	C
No. B12. Name WIR Color WH 1 2 3 4 5 6 7 1 18 19 20 21 21 21 4 6 6 7 1	D
Connector No. Connector Color Connector Color Terminal No. 18 19	E
	F
Name	G
DOOR SWITCH	Н
B116 WHITE	I
Connector No. Connector Name Connector Color H.S. Terminal No. 3 L	J
	K
HH HH	EX
Signal Name	
B108 WHITE Or of the state of t	M
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FRONT FOG LAMP SYSTEM



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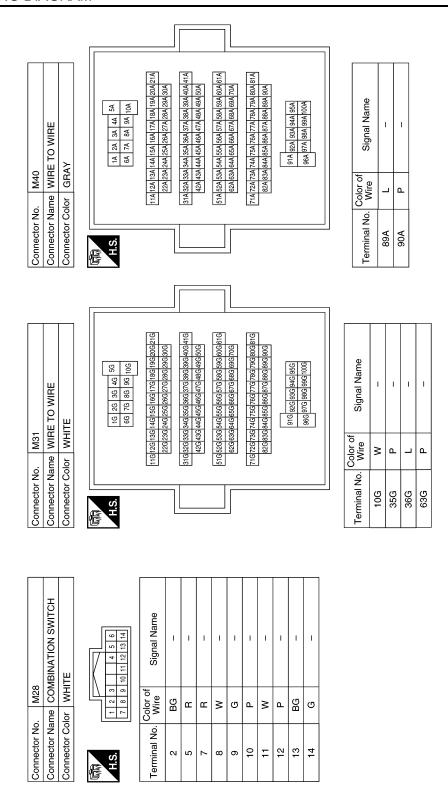
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FRONT FOG LAMP CONNECTORS

Connector No. M18 Connector Color GREEN MODULE) Connector Color GREEN LS 10 18 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 13 2 11 10 8 8 37 38 38 38 38 38 38 38 38 38 38 38 38 38	Terminal No. Color of Signal Name 10 W COMBI SW IN 4 12 R COMBI SW IN 3 13 G COMBI SW IN 1 14 P COMBI SW IN 1 14 P COMBI SW IN 1 1 1 1 1 1 1 1 1 1	A B C D
M4 TO WHITE TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	Signal Name CAN-L CAN-H IGN USM OUT 1 COMBI SW OUT 3 COMBI SW OUT 2 COMBI SW OUT 2 COMBI SW OUT 1	G H
M4 me FUSE E for WHITE TP EP SP 4P	Color of Wire BG Wire	I
Connector No. Connector Name Connector Color	Terminal No. 8P 13P 60 60 60 70 77 78 78 79 79	J
	62 61	K
Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE IN I	Connector No. Wire Signal Name Connector No. M19 Connector Name BCM (BODY CONTROL MODULE) MODULE) Connector Color BLACK	EXL
M3 FUSE BLO WHITE MNITE	Wire	111
Connector No. Connector Name Connector Color	Connector No. Connector Name Connector Color Connector Color Connector Table Connector	Ν
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FRONT FOG LAMP SYSTEM



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FRONT FOG LAMP SYSTEM

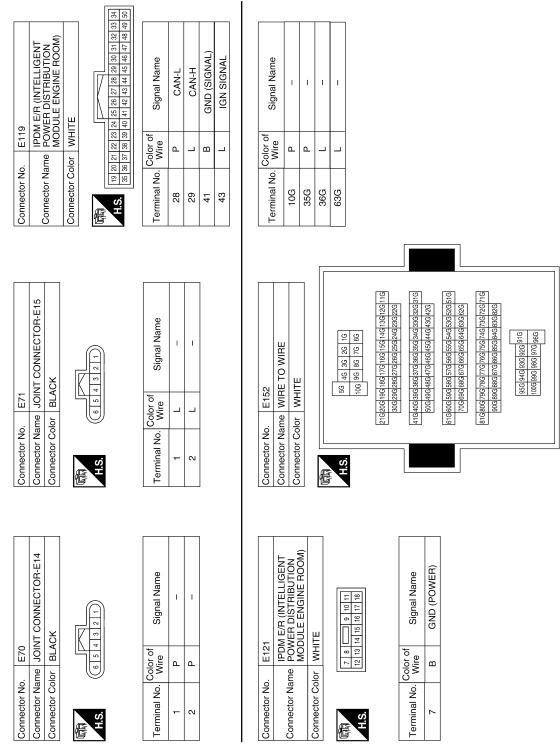
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TROL lame FUSE 2 ER F/L 1	0 N-E12	В
M81	E45 JOINT CONNECTOR-E12 BLUE Stroof Signal Name	С
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Connector No. Connector Name Connector Color H.S. H.S. 131 134 134 139 143	Connector No. Connector Name Connector Color A.S. Terminal No. W 1 4 7 10	Е
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Connector No. M43	M181 JOINT CONNECTOR-M36 WHITE II 4 3 2 1 II V V - V - V	G
M43 JOINT CONN WHITE Or of Sign I're Sign	M181 JOINT CONN WHITE Or of Sign W W	Н
No. M43 Color WHI Color WHI Color of L L L		I
Connector No. Connector Name Connector Color H.S. Terminal No.	Connector No. Connector Color Terminal No. Tolor Color Terminal No. Color Terminal No. Color Terminal No.	J
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Connector No. M41	Signal Name	EXL
M41 M41	M84 WIRE TG WHITE To roof Tie Color of the c	M
Connector No. M41 Connector Name JOINT Connector Color WHITE M.S. Terminal No. Wire 1 P 7 P 7 P 7 P 7 P 8 P	Connector No. Connector Name Connector Color 14.S. (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	N
Connector No. Connector Cold Connector Cold H.S. Terminal No.	Connector No. Connector Cold Connector Cold H.S. Terminal No. 17 17	0

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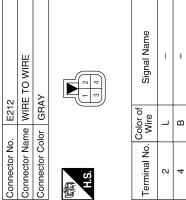


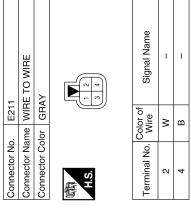
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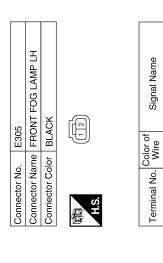
FRONT FOG LAMP SYSTEM

E217	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	WHITE
Connector No. E217	Connector Name	Connector Color WHITE

		1			
MODULE ENGINE ROOM)	ITE	77 78 79 80 81	Signal Name	FR FOG LAMP RH	FR FOG LAMP LH
Θ W	lor WH	77 77	Color of Wire	≯	٦
	Connector Color WHITE	in	Terminal No.	78	62







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Connector No.	. E302	2
Connector Name		WIRE TO WIRE
Connector Color	lor GRAY	λt
是 S.H		2 1 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
2	Μ	1
4	В	1

E301	WIRE TO WIRE	GRAY	2 4
Connector No.	Connector Name	Connector Color	(南南 H.S.

E TO WIRE	٩Y	(V) 4)	Signal Name	1	
ne WIR	or GRAY		Color of Wire	>	۵
Connector Name WIRE TO WIRE	Connector Color	原动 H.S.	Terminal No.	2	,

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FRONT FOG LAMP SYSTEM

Connector Name FRONT FOG LAMP RH

E306

Connector No.

Connector Color BLACK

Connector Name JC	Connector Name JOINT CONNECTOR-B09	Connector Nam	Connector Name JOINT CONNECTOR-B10
Connector Color WHITE	HITE	Connector Color WHITE	r WHITE
H.S.	4 3 2 1 0	H.S.	
Color of Wire	of Signal Name	Color of Terminal No. Wire	olor of Signal Name
-	ı	-	
		C/	-

Signal Name

Color of Wire

Terminal No.

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			1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	RE TO WIRE	IITE	9 8 7 6 5 4 3	Signal Name	I	ı
. B32	me WIF	lor WH	15 14 13 12 11 10 31 30 29 28 27 26	Color of Wire	_	۵
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	(16 11 H.S. (18 2) 32 3	Terminal No.	18	19

	JOINT CONNECTOR-B11	IITE	4 3 2 1	Signal Name	ı	ı
. B16		lor WH	4	Color of Wire	۵	_
Connector No.	Connector Name	Connector Color WHITE	哥 H.S.	Terminal No.	-	2

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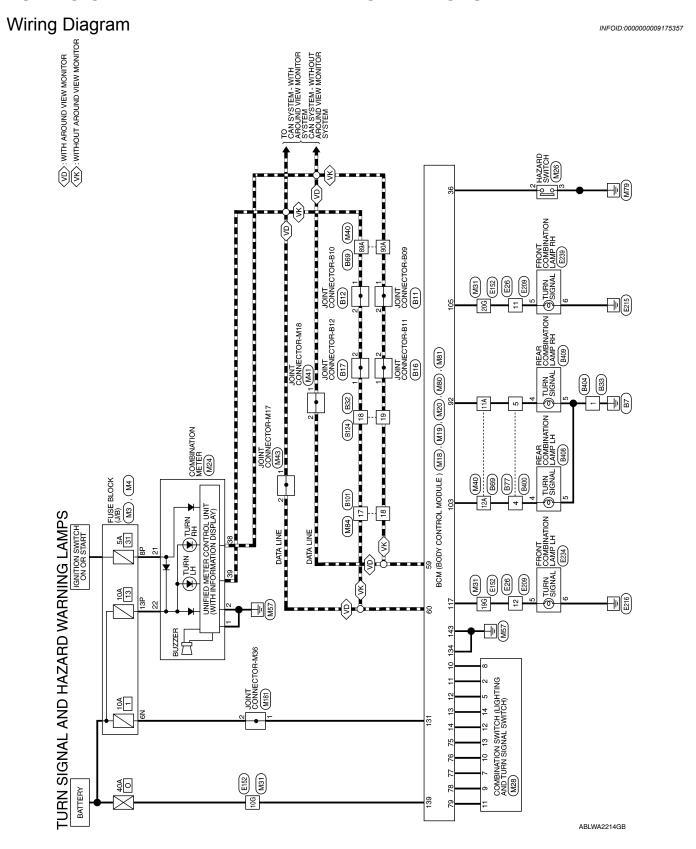
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Connector No. B69 Connector No. B69 Connector No. Connector No.	Connector No. B101 Connector Name WIRE TO WIRE Connector Color WHITE		H.S.	Terminal No. Wire Signal Name	17 L – – 18 P –											
Connector No. B69 Connector No. B69 Connector No. B69 Connector Name WIRE TO WIRE Shad shad shad shad shad shad shad shad s	Signal Name -	ı														
Connector No. B69 Connector No. B69 Connector No. B69 Connector Name WIRE TO WIRE Shad shad shad shad shad shad shad shad s	Color of Wire L	<u> </u>														
Connector Name WIRE TO WIRE	Terminal No. 89A	90A														
AALIA0919GB	Connector No. B69 Connector Name WIRE TO WIRE Connector Color GRAY		.S. 5A 4A 3A 10A 9A 8A	21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A 30A 29A 28A 28A 28A 28A 28A 28A	41A 40A 39A 38A 97A 36A 35A 34A 93A 32A 31A 50A 49A 48A 47A 46A 45A 44A 43A 42A	61A 60A 59A 58A 57A 56A 55A 54A 53A 52A 51A 70A 69A 68A 67A 66A 65A 64A 63A 52A	81.480A/39A/38A/7.4A/36A/35A/34A/33A/32A/31A 90A/89A/88A/87A/86A/85A/84A/83A/82A	95A 94A 93A 92A 91A 100A 99A 96A 97A 96A	Connector No. B124	Connector Name WIRE TO WIRE Connector Color WHITE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 13 14 15 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Color of Wire	19 P			
													AALI	A0919GE	3	

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COMBI SW IN 2

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COMBI SW IN 1

HAZARD SW

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COMBI SW IN 5 COMBI SW IN 4 COMBI SW IN 3

TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS

		_			22 21			
8	Connector Name BCM (BODY CONTROL	DULE)	EEN		20 19 18 17 16 15 14 13 12 11 10 9 8 7 7 6 5 4 3 2 2 11 1 10 9 9 8 7 2 5 2 2 2 2 1	Signal Name	COMBI SW IN 5	COMBI SW IN 4
Σ.	me BC	∑	lor GR		15 14 13 35 34 33	Color of Wire	≯	BG
Connector No. M18	Connector Na		Connector Color GREEN	原 H.S.	20 19 18 17 16 15 14 13 12 11 10 40 39 38 37 36 35 34 33 32 31 30	Terminal No. Color of Wire	10	11
			_					
	Connector Name FUSE BLOCK (J/B)	TE		8P SP 44P TOP 3P 2P 1P SP 44P TOP 3P 8P 8P SP SP SP SP SP S		Signal Name	ı	I
M4	ne FUS	or WH		7P 6P 5P 4P 16P 15P 14P 13P 1		Solor of Wire	BG	8
Connector No.	Connector Na	Connector Color WHITE		明.S.		Terminal No. Wire	8P	13P
			_					ı
	E BLOCK (J/B)	TE	!	7N 6N 5N 4N		Signal Name	1	
M3	me FUS	or WHI		8 8		Color of Wire	8	
Connector No.	Connector Name FUSE BLOCK (Connector Color WHITE		原. H.S.		Terminal No. Wire	N9	

				22 21								
Connector No. M24 Connector Name COMBINATION METER	1			10 9 8 7 6 5 4 3 30 29 28 27 26 25 24 23	Signal Name	GND1	GND2	IGN	BAT	CAN-L	CAN-H	
. M24 me COM	5			17 16 15 14 13 12 11 37 36 35 34 33 32 31	Color of Wire	В	В	BG	8	۵	_	
Connector No. M24 Connector Name COMBII		H.S.		20 19 18 17 16 15 14 13 40 39 38 37 36 35 34 33	Terminal No. Wire	-	2	21	22	38	39	
		İ				ı		1				
Connector No. M20 Connector Name BCM (BODY CONTROL MODULE)	>			8 87 86 85 84 83 82 81 0 99 98 97 96 95 94 93	Signal Name	RR FLASHER	RL FLASHER					
. M20 me BCM MOD	lor GRA			92 91 90 89 88 87 104 103 102 101 100 99	Color of Wire	۳	BG					
Connector No.	Connector Color GRAY		6	1041	Terminal No. Wire	92	103					
			П	61								
Connector No. M19 Connector Name BCM (BODY CONTROL MODULE)	Ş			49 48 47 46 45 44 43 42 69 68 67 66 65 64 63 62	Signal Name	CAN-L	CAN-H	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1
M19 MOD	lor BLA	[]		55 54 53 75 74 73	Color of Wire	۵	_	BG	۵	Œ	5	>
Connector No.	Connector Color BLACK		С	60 59 58 57 56 80 79 78 77 76	Terminal No. Color of Wire	59	09	75	9/	77	78	79

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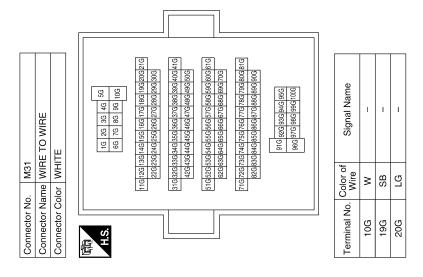
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EXL-57 Revision: May 2013 2014 Pathfinder

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	COMBINATION SWITCH	WHITE		6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	!	Signal Name	ı	I	-	1	_	-	1	_	-	1
M28	_	_		7	4I	Color of Wire	BG	Œ	Œ	8	9	Д	8	Ь	BG	ŋ
Connector No.	Connector Name	Connector Color	[是 H.S.		Terminal No.	2	2	7	8	6	10	11	12	13	14

Connector No.). M26	
Connector Na	me HAZ	Connector Name HAZARD SWITCH
Connector Color WHITE	olor WH	TE
H.S.	4	3 2 1
Terminal No. Wire	Color of Wire	Signal Name
2	×	1
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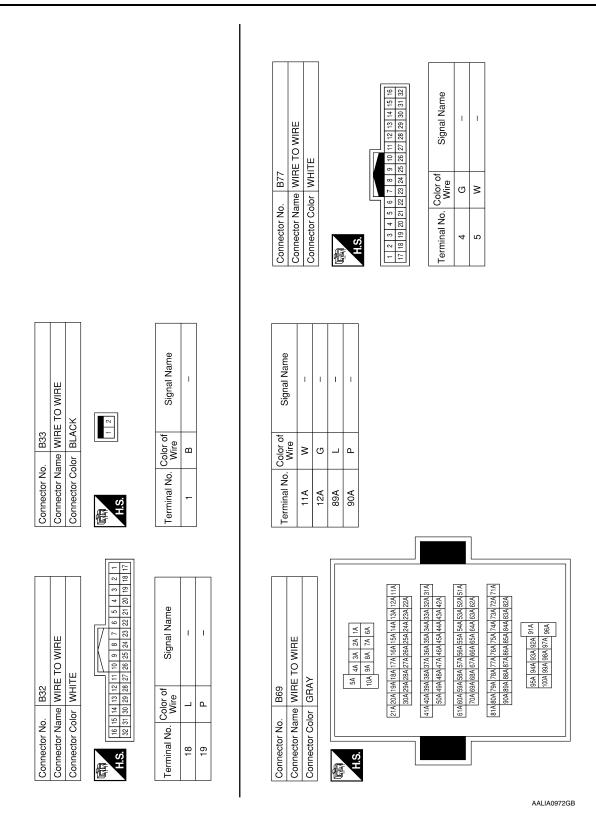
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Connector No. M41 Connector Name JOINT CONNECTOR-M18	Connector Color WHITE			U)		Terminal No. Color of Signal Name							Connector No. M81	Connector Name BCM (BODY CONTROL MODULE)	Connector Color WHITE		Terminal No. Color of Signal Name	131 W BAT BCM FUSE	134 B GND 2	139 W BAT POWER F/L	143 B GND 1	
5 0 0	S					Tern							Con	Con	Con	E T	Terr					
Signal Name	1	1	-	I										BCM (BODY CONTROL MODULE)		116 115 114 113 12 111 110 106 107 106 106 128 127 126 125 124 123 122 121 120 119 118 117	Signal Name	FR FLASHER	FL FLASHER			
Color of Wire	В	ВG	7	Ъ). M80	me BCM (I	olor BLACK	115 114 113 112 1	Color of Wire	P	SB			
Terminal No.	11A	12A	89A	90A									Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	105	117			
		_													_							
TO WIRE				1A 2A 3A 4A 5A	64 74 84 94 104 114 115 11	22A 23A 24A 25A 26A 27A 28A 29A 30A	31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A	51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A	62A 63A 64A 65A 66A 67A 68A 69A 70A	718 728 738 748 758 758 778 788 798 808 818 828 838 848 858 868 878 888 898 908	91A 92A 93A 94A 95A	Voc		CONNECTOR-M17		2 1 0	Signal Name	1	1			
Connector No. M40 Connector Name WIRE TO WIRE	Connector Color GRAY	_		v.		2242342	31A 32A 33A 3	51A52A53A54	62A 63A 6-	71A 72A 73A 74 82A 83A 84			Connector No. M43	Connector Name JOINT CONNECTOR-		H.S.	Terminal No. Wire	-	2 L			
					_										_			Δ	BLIA	50480	ЭВ	

Connector No. E26 Connector Name WIRE TO WIRE Connector Color WHITE H.S.	Terminal No. Color of Signal Name 11 G	Connector No. E209 Connector Name WIRE TO WIRE
Connector No. M181 Connector Name JOINT CONNECTOR-M36 Connector Color WHITE M.S.	Terminat No. Color of Wire Wire 2 W -	Terminal No. Color of Signal Name 10G P - 19G W - 20G G
Connector No. M84 Connector Name WIRE TO WIRE Connector Color WHITE H.S. 15 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 18 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 19 21 30 29 28 27 28 29 22 21 20 19 18 17	Terminal No. Color of Wire Signal Name	Connector No. E152

< WIRING DIAGRAM >

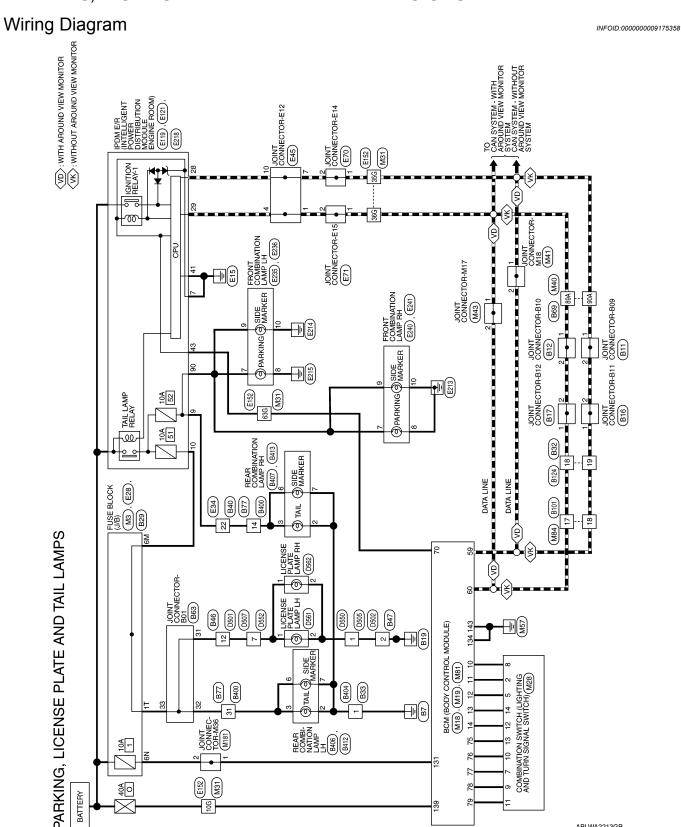
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JECTOR-B09	Signal Name	VECTOR-B12	Signal Name	В
Connector No. B11 Connector Name JOINT CONNECTOR-B09 Connector Color WHITE	Color of Wire P	Connector No. B17 Connector Name JOINT CONNECTOR-B12 Connector Color WHITE	Color of Wire L	C
Connector No. Connector Color Connector Color HS.	Terminal No.	Connector No. Connector Nam Connector Cold	Terminal No.	Е
				F
E239 FRONT COMBINATION GRAY	Signal Name	Connector No. B16 Connector Name JOINT CONNECTOR-B11 Connector Color WHITE The state of the sta	Signal Name - -	G H
r No. E239 r Name FRONT LAMP R r Color GRAY	No. Color of Wire SB SB	Connector No. B16 Connector Name JOINT CONNE Connector Color WHITE	No Color of Wire P	1
Connector No. Connector Color	Terminal No. 5	Connector No. Connector Cole	Terminal No.	J
				K
Connector No. E234 Connector Name FRONT COMBINATION LAMP LH Connector Color GRAY LS.	Signal Name	Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color WHITE INS.	Signal Name	EXI
ne FRONT LAMP I or GRAY	Color of Wire Y	me JOINT C	Color of Wire	
Connector No. E234 Connector Color GRAY Connector Color GRAY H.S.	Terminal No. (6	Connector No. B12 Connector Name JOINT (Connector Color WHITE	Terminal No. (N
	Φ		<u> </u>	AALIA0971GB



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Connector No. Connector Name	Connector No. B101 Connector Name WIRE TO WIRE		Connector No. B124 Connector Name WIRE TO WIRE	o. B124 ame WIRE	TO WIRE		Connector No.	Connector No. B400 Connector Name WIRE TO WIRE	TO WIRE	
Connector Color WHITE	WHITE		Connector Color WHITE	olor WHITE	ш		Connector (Connector Color WHITE	ш	
		Ş	Ŀ	0	9	4		15 14 13 12 1	11/ [~	4
H.S. 17 18 19	20 21 22 23 24 25 26 27 28	29 30 31 32	H.S.	18 19 20	24 25	32	H.S.	32 31 30 29 28 2	2 8	21 20 19
Terminal No. Col.	Color of Signal Name		Terminal No.	Color of Wire	Signal Name		Terminal No.	Color of Wire	Signal Name	ше
17	-		18	_	1		4	G	1	
18	I		19	۵	1		2	3	1	
Connector No.	B404		Connector No.	o. B408			Connector No.	No. B409		
Connector Name			Connector Name	ame REAR	REAR COMBINATION LAMP		Connector	Name REAR	Connector Name REAR COMBINATION LAMP	ON LAMP
Connector Color	BLACK		Connector Color				Connector (Connector Color GRAY		
管	2 1									
Į.			H.S.	<u>-</u>			H.S.			
Terminal No. W	Color of Signal Name		Terminal No.	Color of Wire	Signal Name		Terminal No.	Color of Wire	Signal Name	ıme
-	- B		4	g	1		4	*	1	
			C)	В	ı		2	В	1	
N 0	EX M	K	J	I	G	F	Е	D	С	В
						:	-)	>	}

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COMBI SW OUT 2

COMBI SW OUT 1

COMBI SW OUT 5

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IGN USM OUT 1

CAN-H CAN-L

COMBI SW OUT 4 COMBI SW OUT 3

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PARKING, LICENSE PLATE AND TAIL LAMPS CONNECTORS

Connector No. M19	Connector Name BCM (BODY CONTROL	MODULE)	Connector Color BLACK
M18	unnector Name BCM (BODY CONTROL	MODULE)	GREEN
Connector No.	Connector Name		Connector Color GREEN
Connector No. M3	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	

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

	2	52		<u>م</u>
	9	56		Signal Name
	7	27		ĮΞ
	80	28 27		7
117	6	40 39 38 37 36 35 34 33 32 31 30 29		2
IV	12	8		J 0.
IN.	Ξ	31		
	12	32		
	13	gg		Color of
	4	怒		Solor
	15	35		8-
	16	98		
	7	37		2
	8	88		2
H.S.	19	စ္တ		3
唇	20	40		Terminal No
			_	

7N 6N 5N 4N

Signal Name

Color of Wire

Terminal No.

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Terminal No. Color of Signal Name 10 Wire COMBI SW IN E 11 BG COMBI SW IN E 12 R COMBI SW IN E 13 G COMBI SW IN E 14 P COMBI SW IN E 15 P P P P P P P P P	25 31 30 53 50 57 50 53	Signal Name	COMBI SW IN	COMBI SW IN	COMBI SW IN	COMBI SW IN 2	COMBI SW IN
10 10 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	00 45	Color of Wire	*	BG	ш	g	Ь
	40 39 30 37 30	Terminal No.	10	11	12	13	14

Signal Name

Color of Wire ≥

Terminal No.

N9

	Signal Name	ı	ı	ı	ı	_	I	I	I	ı	1
Color of	Wire	BG	œ	œ	>	В	Ь	M	Ь	BG	9
	Terminal No.	2	5	7	8	6	10	11	12	13	14

Connector No.	M28
Connector Name	Connector Name COMBINATION SWITCH
Connector Color WHITE	WHITE
H.S.	4 5 6
_ 	7 8 9 10 11 12 13 14

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Connector No. M41 Connector Name JOINT CONNECTOR-M18 Connector Color WHITE	Terminal No. Color of Signal Name 1 P					
M40 WIRE TO WIRE GRAY	11A 12A 13A 14A 5A 22A 133A 14A 15A 16A 10A 22A 133A 134 135A 16A 17A 18A 19A 20A 21A 313A 32A 33A 33A 35A 35A 35A 35A 35A 40A 41A 42A 443A 44A 45A 45A 45A 45A 45A 45A 45A 45A 45	Color of Signal Name	-	ا ا		
Connector No. Connector Name Connector Color	H.S. 618	Terminal No. W	89A	90A		
E TO WIRE	16 26 36 46 56 106	Signal Name	1	1	ı	ı
. M31 me WIRE T lor WHITE	11G 2G 3G 6G 7G 8G 11G 2CD 3CD 14G 15G 16G 22CD 23CD 24G 25G 25G 42CD 43CD 44G 45G 46G 61CD 22CD 53CD 44G 45G 46G 61CD 22CD 53CD 54G 55G 55G 61CD 22CD 54G 55G 55G 61CD 22CD 54G 55G 55G 61CD 22CD 54G 55G 55G 61CD 24G 55G 61CD 24G 55G 55G 61CD 24G 55G 55G 61CD 24G 55G 55G 61CD 24G 55G 61CD 24G 55G 55G 61CD 24G 55G 55G 61CD 24G 55G 55G 61CD 24G 55G 61CD 24G 55G 55G 61CD 24G 55G 55G 61CD 24G 55G 55G 61CD 24G 55G 61CD 24G 55G 55G 61CD 24G 55G 61CD 24G 55G 55G 61CD 24G 55G 55G	Color of Wire	>	۵	_	۵
Connector No. M31 Connector Name WIRE TO WI Connector Color WHITE	HS	Terminal No.	10G	35G	36G	63G

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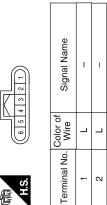
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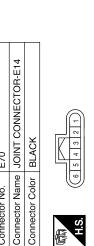
Connector No. M84 Connector Name WIRE TO WIRE Connector Color WHITE MIST 12 11 10 9 8 7 6 5 4 3 2 1 1 Ele 15 14 13 12 11 10 9 8 7 6 5 12 21 20 19 18 17	Terminal No. Wire Signal Name	Connector No. E34 Connector Name WIRE TO WIRE Connector Color WHITE	A B C D
Connector No. M81 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE	Terminal No. Color of Wire Signal Name 131 W BAT BCM FUSE 134 B GND 2 139 W BAT POWER F/L 143 B GND 1	Connector No. E28 Connector Name FUSE BLOCK (J/B) Connector Color WHITE Terminal No. Wire Signal Name 6M L	G H J
Connector No. M43 Connector Name JOINT CONNECTOR-M17 Connector Color WHITE	Terminal No. Wire Signal Name	Connector No. M181 Connector Name JOINT CONNECTOR-M36 Connector Color WHITE Connector Color of Signal Name 1 W - 2 W -	EXI M N

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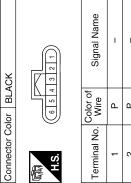
Connector No.	E71
Connector Name	onnector Name JOINT CONNECTOR-E15
Connector Color	BLACK

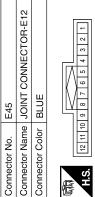




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Connector No.

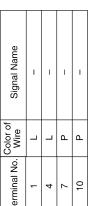


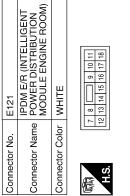






Signal Name	1	1	
Color of Wire	Ь	Д	
Terminal No.	1	2	





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7 8 T	Signal Name GND (POWEF	Color of Wire B	
		7 8 [12 13]	in

Connector No.	E119	6										
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)			€ 었습	1月15日		1855		₽Ζδ	_		
Connector Color WHITE	MH	世										
		ے ا	'	N	<i> V</i>	IT	_					
ATT TO		ì	\			Γ						
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	22 23	24	25	56	27	28	83	98	31	잃	83	34
35 36 37 38 39 40 41 42 43 44	38 39	40	41	42	43	44	45	46	45 46 47 48	48	49 50	20

Signal Name	CAN-L	CAN-H	GND (SIGNAL)	IGN SIGNAL
Color of Wire	۵		В	
Terminal No. Wire	28	59	41	43

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ne CE	NO H	В
E218 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE Or of Signal Name G. CLEARANCE	E240 FRONT COMBINATION GRAY Strong Signal Name G	С
	1	D
Connector No. Connector Name Connector Color H.S. SERIES S	Connector No. Connector Color Terminal No. W	Е
		F
Signal Name	E236 FRONT COMBINATION GRAY or of Signal Name 3	G H
Color of Wire P P P P P P P P P P P P P P P P P P P	1 0 = 1 9 1 1 1	ı
Terminal No. C 35G 36G 63G	Connector No. Connector Color Terminal No. 9 10 10	J
		K
E152 WHITE WHITE 100 90 90 10 10 10 10 10	E235 FRONT COMBINATION GRAY Signal Name G G - Signal Name G -	EXL
E152		N
Connector No. Connector Color H.S. H.S.	Connector No. Connector Color HS. Terminal No. W 7 L 8 I	0
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Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color WHITE	H.S. Ultilian (Color of Wire Signal Name		Oce Masterna	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	(五) (五) (五) (五) (五) (五) (五) (五) (五) (五)	Terminal No. Wire Signal Name	- M T1	
Connector No. B11 Connector Name JOINT CONNECTOR-B09 Connector Color WHITE	H.S.			Connector Name JOINT CONNECTOR-B12	Connector Color WHITE	(南) (1 3 2 1 1 1 1 H.S.	Terminal No. Color of Signal Name	1 L -	-
E241 FRONT COMBINATION LAMP RH GRAY	r of Signal Name			JOINT CONNECTOR-B11	WHITE	4 3 2 1 1	r of Signal Name	1	
nector No.	H.S. Color of Terminal No. Wife	9 LG 10 B		Connector Name JOINT CONNECT	Connector Color	所 H.S.	Terminal No. Wire	т -	

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Connector No. B40 Connector Name WIRE TO WIRE Connector Color WHITE	Color of Signal Name Wire	lo. B63 color WHITE 11 10 9 8 7 6 5 4 3 2 1 1 2 2 2 1 20 19 18 17 16 15 14 13 12 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Color of Signal Name W W - W W W W W W W -	A B C
Connector No. Connector Color Connector Color H.S.	Terminal No.	Connector No. Connector Color H.S. 11 10 22 21	33 33	E
				F
	уате на пределатите н		Name	G
TO WIRE	Signal Name	TTO WIRE 7 8 4 8 1	Signal Name	Н
me WIRE TO	Mire B	me WIRE TO	Color of Wire B	I
Connector No. B33 Connector Name WIRE TO WIRE Connector Color BLACK TIS TIS	Terminal No.	Connector No. B47 Connector Name WIRE TO WIRE Connector Color GRAY The state of th	Terminal No.	J
18 17				K
22 22 22 22 22 22 22 22 23 20 19	Signal Name	WIRE	Signal Name	EXL
Connector No. B32 Connector Name WIRE TO WIRE Connector Color WHITE MITE IS 15 14 13 12 11 10 9 8 8 12 13 13 13 13 13 13 13 13 13 13 13 13 13		Connector No. B46 Connector Name WIRE TO WIRE Connector Color WHITE 1 2 3 4 5 6 7 8 9		M
or No. B32 or Name WIRE or Color WHITI	Color of Wire	or No.	Oolor of Wire Wire	N
Connector No. Connector Name Connector Color	Terminal No. 18 19	Connector Name Connector Color H.S.	Terminal No.	0
			ABLIA5044GB	Р

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Connector No. B77	Connector No. B400 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Connector Color WHITE Connector Color WHITE Connector Color Color of	--	--
Terminal No. Wire Signal Name 89A L – 90A P –	Connector No. B124		
Source See S	Connector No. B101 Connector No. B101 Connector Name WIRE TO WIRE Connector Color WHITE To WIRE Connector Color WHITE To WIRE To		

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< WIRING DIAGRAM >

Connector No. B407 Connector Name REAR COMBINATION LAMP RH Connector Color GRAY	Terminal No. Color of Signal Name 2 B 3 W	Connector No. D501 Connector Name WIRE TO WIRE Connector Color WHITE TE 11 10 9 8 7 6 5 4 3 2 1 ALS. E2 21 20 19 18 17 16 15 14 13	Terminal No. Wire Signal Name
B406 REAR COMBINATION LAMP LH GRAY	Signal Name	B413 LAMP RH WHITE	Signal Name
Connector No. Be Connector Name R Connector Color G H.S.	Terminal No. Wire 2 B 3 W	Connector No. Bacconnector Name Rice Connector Color WHS.	Terminal No. Wire 6 W 7 B
B404 WIRE TO WIRE BLACK	Signal Name	B412 REAR COMBINATION LAMP LH WHITE	Signal Name – – – – – – – – – – – – – – – – – – –
Connector No. B404 Connector Name WIRE TO WIRE Connector Color BLACK H.S.	Color of Wire 1 B	Connector No. B412 Connector Name REAR COMBINATION LAMP LH Connector Color WHITE	Terminal No. Wire 6 W 7 B

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Revision: May 2013 EXL-73 2014 Pathfinder

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

7 E TO WIRE TE	13 12 1 10 9	Signal Name	D561 LICENSE PLATE LAMP LH	BROWN	2 1	Signal Name	1
D507 ame WIRE	8 7 6 11 15 14 7	Color of Wire Y	D561 ame LICEI			0	മ
Connector No. D507 Connector Name WIRE TO WIRE Connector Color WHITE	(A.S. H	Terminal No.	Connector No.	Connector Color	原 H.S.	Terminal No.	-
				\Box			
5 IE TO WIRE ITE	6 2 8 4 4 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	Signal Name	2 IE TO WIRE	ITE	12 14 17 16 16 17 18 17 16 16 17 18 17 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Signal Name	ı
D505 ame WIRE		Color of Wire B	D552 ame WIRE	olor WHITE	9 10 11	Color of Wire	<u>.</u>
Connector No. D505 Connector Name WIRE TO WIRE Connector Color WHITE	用.S.	Terminal No.	Connector No. D552 Connector Name WIRE TO WIRE	Connector Color	H.S.	Terminal No.	7
2 IE TO WIRE AY	7 3 6 5 7 8 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name	0 RE TO WIRE	ITE	2 9 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Signal Name	1
o. D502 ame WIRE	4 ®	Color of Wire B	o. D550 ame WIRE	olor WHITE	- m	Color of Wire	ď
Connector No. D502 Connector Name WIRE TO WIRE Connector Color GRAY	原列 H.S.	Terminal No.	Connector No. D550 Connector Name WIRE TO WIRE	Connector Color	明.S.	Terminal No.	-
					_		

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

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

2 1	Signal Name	ı	1
	Color of Wire	LG	а
山河 H.S.	Terminal No.	-	٥

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

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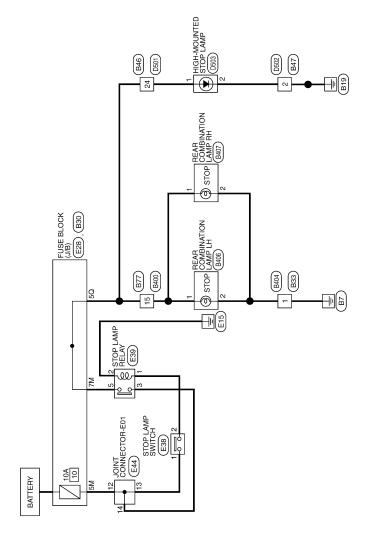
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STOP LAMP

Wiring Diagram



STOP LAMP

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Connector No. E39
Connector Name STOP LAMP RELAY
Connector Color BLUE

STOP LAMP CONNECTORS

Revision: May 2013

E38	Connector Name STOP LAMP SWITCH	WHITE	0 1 2
Connector No. E38	Connector Name	Connector Color WHITE	赋 H.S.
E28	Connector Name FUSE BLOCK (J/B)	WHITE	4M 3M 2M 7M 5M 1M 5M 5M
Connector No. E28	Connector Name	Connector Color WHITE	(中) H.S.

Signal Name	1	-	1	-
Color of Wire	Μ	В	У	В
Terminal No. Wire	1	2	3	5

Signal Name	ı	I
Color of Wire	>	W
Terminal No.	-	2

Signal Name	1	ı
Color of Wire	>	Œ
Terminal No. Color of Wire	2M	J.W

EXL-77

	E TO WIRE	Š	2	Signal Name	
. B33	me WIR	lor BLA		Color of Wire	
Connector No.	Connector Name WIRE TO WIRE	Connector Color BLACK	所 H.S.	Terminal No. Wire	,
_					_

	Connector Name FUSE BLOCK (J/B)	ITE	20 20 10 20 70 60 50 40	Signal Name	-
B30	ne FUS	or WHI	30 08	Color of Wire	В
Connector No.	Connector Nar	Connector Color WHITE	原 H.S.	Terminal No.	50

	TOR-E01		3 2 1 1 1 2 1 1 1 2 1
E44	JOINT CONNEC	WHITE	11 10 9 8 7 6 5 4 3 2 1 1 2 2 2 1 2 0 19 18 17 16 15 14 13 12 3 3 3 2 3 1 3 0 29 28 27 26 25 24 23
Connector No.	Connector Name JOINT CONNECTOR-E01	Connector Color WHITE	H.S. 1110

	8 7 6 5 4 3 2 1	22 21 20 19 18 17 16 15 14 13 12	33 32 31 30 29 28 27 26 25 24 23	Signal Name	I	_	
	11 10 9 8	2 21 20 1	3 32 31 3	Color of Wire	\	Υ	>
優	H.S.		<u> </u>	Terminal No.	12	13	11

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2014 Pathfinder

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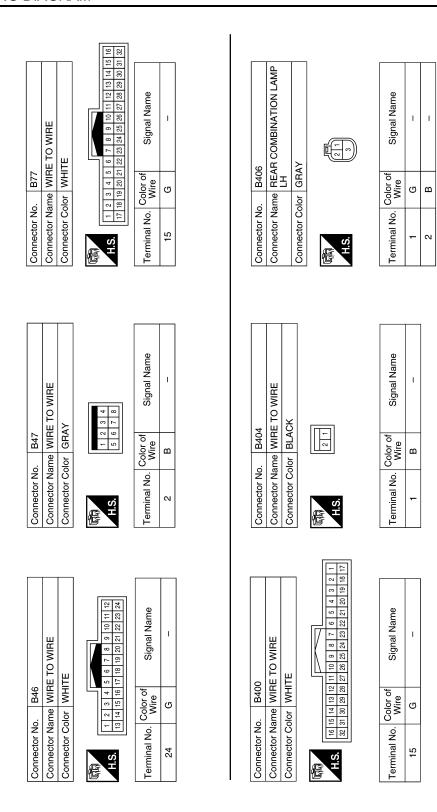
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E TO WIRE	Signal Name	1						
me WIRE	Color of Wire	<u> </u>						
Connector No. D502 Connector Name WIRE TO WIRE Connector Color GRAY	Terminal No.	N						
TO WIRE E	Signal	1						
D501 NHITE WHITE	24 23 22 Color of Wire							
Connector No. D501 Connector Color WHITE Connector Color WHITE	Terminal No.	24						
								_
Connector No. B407 Connector Name REAR COMBINATION LAMP RH Connector Color GRAY	Signal Name	1 1		Connector Name HIGH-MOUNTED STOP LAMP Connector Color BROWN		Signal Name	ı	1
B407 B REAR CC RH GRAY	Color of Wire	<u>Б</u> В	D503	HIGH-MG LAMP BROWN	2 1	Color of Wire	re	В
Connector No. Connector Name Connector Color	oN S		tor No.	Connector Name		I No.		\dashv
Connector No. Connector Nam Connector Colc	H.S. Terminal No.	- 2	Connector No.	Connec	画 H.S.	Terminal No.	-	7

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Revision: May 2013 EXL-79 2014 Pathfinder

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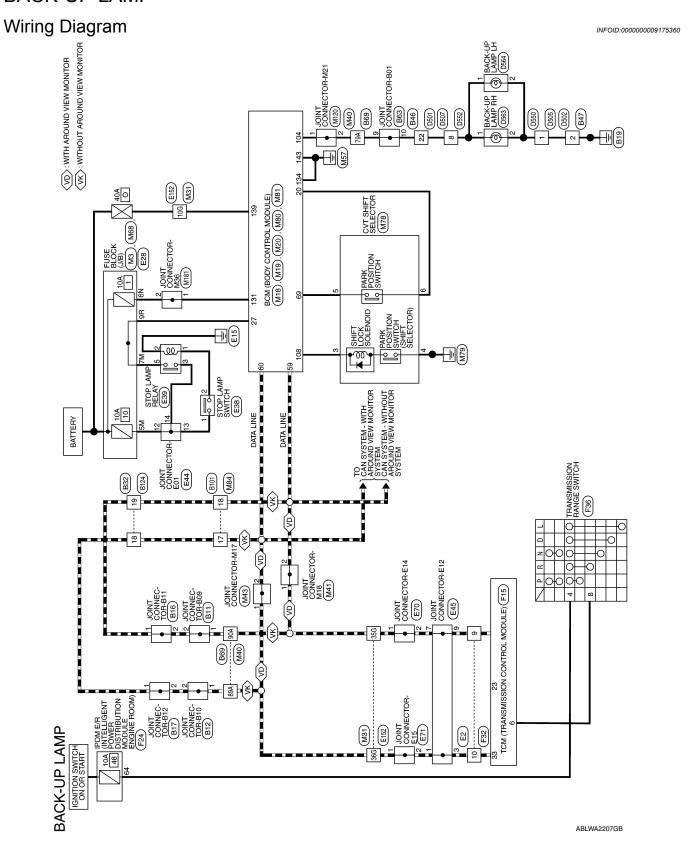
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BACK-UP LAMP



				61				1							Α
		BCM (BODY CONTROL MODULE)		29 88 57 58 55 54 53 22 51 70 89 88 67 66 65 54 53 62 17 70 70 70 70 70 70 70 70 70 70 70 70 70	Signal Name	CAN-L	CAN-H AT DEVICE OUT	Signal Name	ı	ı	ı				В
				55 54 53 52 51 1	Color of Wire	۵	J 0	Color of Wire	>	a	_				D
	Connector No.	Connector Name	H.S.	80 59 58 57 56 5 80 79 78 77 76 7	Terminal No.	29	69	Terminal No.	10G	35G	36G				Е
				[2]											F
		ONTROL		7 6 5 4 3 2 1 27 26 25 24 23 22 21	Signal Name	SHIFT P	BRAKE SW LAMP		ш		10 20 30 40 56 60 70 80 90 100	116 26 36 46 56 166 176 36 96 206 216 	42044309 4409 4509 4604 4704 4809 4809 5000 6100 620 620 620 620 620 620 620 6		G
		BCM (BODY CONTROL MODULE) GREEN		11 10 9 8 31 30 29 28	Signa	SH	BRAKE		WHITE	J	1G 2G 3G 4G 6G 7G 8G 9G	3G14G15G16G 3G24G25G26G 3G34G35G36G	30[440[450]480[470]480]48 30[440[550[560[570]680[59 30[440[550[560[570]680[59 30[3440[550[560[570]680[59 30[3440[350]980[3950]40[550] 910]920[3950[390]990[1000]		Н
			<u> </u>	15 14 13 12 35 34 33 32	Color of Wire	>	5	No. M31	Color	_		11G12G1 22G2 31G32G3	4204 4204 6165265 6165265 7167267 82068		I
	Connector No.	Connector Name Connector Color	H.S.	20 19 18 17 16 15 14 13 12 11 10 9 8 40 39 38 37 38 38 37 38 38 34 33 32 31 30 29 28	Terminal No.	20	27	Connector No. M31	Connector Color		H.S.				J
													1		K
ECTORS		K (J/B)			Signal Name	1		O C	JOH INDO		96 95 94 93	Signal Name REVERSE LAMP OUT			EXL
CONN	8	FUSE BLOC	3N					M20	MODULE)	GRAY	92 91 90 89 88 77 86 85 104 100 100 100 99 98 97	REVI			M
BACK-UP LAMP CONNECTO	Connector No. M3	Connector Name FUSE BLOCK (J/B) Connector Color WHITE	, Q		Color of Wire	M N9		Connector No. M.		Connector Color G	Q.	Terminal No. Wire 104 LG			N
BACK	ပြ	<u> </u>	E T		Te				3	ပြ		_ 	AALIA089	5GB	0
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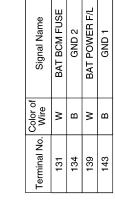
Connector No. M41	Connector No. M78 Connector Name CVT SHIFT SELECTOR Connector Color WHITE
Terminal No. Color of Signal Name 79A LG - 89A L - 90A P -	Connector No. M68 Connector Name FUSE BLOCK (J/B) Connector Color BROWN The lest set that the set of the lest set that the lest set that the lest set that the lest set that the lest set that set the lest set that the lest set that the lest set that the lest set the lest
Connector No. WIRE TO WIRE	Connector No. M43

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	Connector No. M84	M84
DY CONTROL	Connector Name	Connector Name WIRE TO WIRE
	Connector Color WHITE	WHITE
22 131 130 123 0 139 138	ι	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 22 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17

Signal Name	_	-
Color of Wire	7	Ь
Terminal No.	17	18

Connector No.	M81
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color WHITE	WHITE
H.S.	42 42 141 140 159 158



SHIFT LOCK SOLENOID OUT Signal Name

GR

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Terminal No. Wire

M80	Connector Name BCM (BODY CONTROL MODULE)	BLACK	116[15]14[13]12[11]10[108[108]107[106[105] 128[127[126[126[126]127]120[119[118[117]
Connector No.	Connector Name	Connector Color BLACK	(116[115]1 H.S. (128[127[15]

	IE TO WIRE	TE	4 12 13 14 1 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Signal Name	ı	ı
F	me WIR	lor	9 10 2 11 3	Color of Wire	_	_
Connector No F2	Connector Name WIRE TO WIRE	Connector Color WHITE	南 H.S.	Terminal No. Color of Wire	6	10
	Connector Name JOINT CONNECTOR-M36	ITE	9 2 1	Signal Name	I	1
M18	me JOII	or WH		Color of Wire	8	>
Connector No M181	Connector Na	Connector Color WHITE	国 H.S.	Terminal No. Wire	-	2
	•				•	•
	Connector No. M120 Connector Name IOINT CONNECTOR-M21	TE	3 2 1 0	Signal Name	_	_
	M12(or WHI	4 3	Color of Wire	LG	ГG
	Connector No.	Connector Color WHI	原 H.S.	Terminal No. Wire	1	2

Signal Name	1	1	
Color of Wire	ГG	ГG	
Terminal No.	1	7	

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EXL-83 2014 Pathfinder Revision: May 2013

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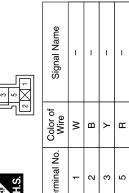
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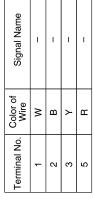
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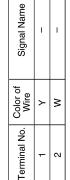
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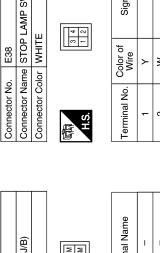
Connector No. E39	Connector Name STOP LAMP RELAY	Connector Color BLUE
	SWITCH	





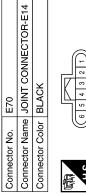






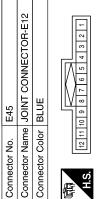
1 3

	BLOCK (J/B)	ш	4M 3M	Signal Name	-	-
E28	ne FUSE	or WHITI	4M 3M 10M 9M 8	Color of Wire	Υ	В
Connector No.	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	南 H.S.	Terminal No.	5M	MZ



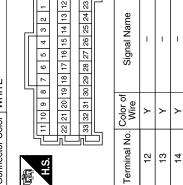


	2 2 2	Signal Name	_	I
lor BI AC	8 9	Color of Wire	Ь	Ь
Connector Color BI ACK	H.S.	Terminal No.	ļ	2



Signal Name	1	I	I	1
Color of Wire	٦		Ь	۵
Terminal No. Wire	-	3	7	6

Connector No.	r No.	E44	
Connecto	r Name	Connector Name JOINT CONNECTOR-E01	
Connector Color WHITE	r Color	WHITE	
[
E			
S	11111	10 9 8 7 6 5 4 3 2 1	_
	7 22 21	22 21 20 19 18 17 16 15 14 13 12	
	글 33 35	33 32 31 30 29 28 27 26 25 24 23	



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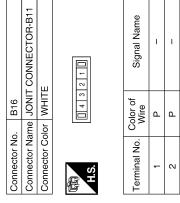
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Signal Name	1 1		F32 WIRE TO WIRE WHITE 7 6 5 4 3 2 1 15 14 13 12 11 10 9	Signal Name – – – – – – – – – – – – – – – – – – –
Color of Wire P	<u>ـ</u> ـ			Color of Wire
Terminal No.	35G 36G		Connector No. Connector Color MH.S.	Terminal No.
	, [
Connector No. E152 Connector Name WIRE TO WIRE Connector Color WHITE	- 11	5G 4G 3G 7G 1G	F24 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TWHITE TO WHITE TO	Color of Signal Name LG START IG BGI
Connector No. Connector Name Connector Color		S.H.	Connector No. Connector Color Connector Color	Terminal No. 64
Connector No. E71 Connector Name JOINT CONNECTOR-E15 Connector Color BLACK		Signal Name	Aume TCM (TRANSMISSION CONTROL MODULE) CONTROL MODULE) CONTROL MODULE) CONTROL MODULE) 13	Signal Name R RANGE SW CAN-L CAN-H
E71 Ime JOINT (⊣ ।	Color of Wire		Color of Wire BR BR
Connector No. Connector Name Connector Color		Terminal No.	Connector No. Connector Name Connector Color A.S. A.S. 11 12 21 22 11 12 21 12 12	Terminal No. 6 6 23 33
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Revision: May 2013 EXL-85 2014 Pathfinder

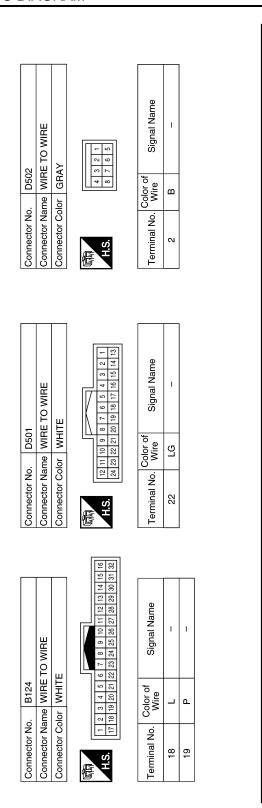
Connector No.). F36		Connector No.	o. B11		Connector No. B12). B12	
Connector Na	me TRA	NSMISSION BANGE	Connector N	ame JOINT	Connector Name JOINT CONNECTOR-B09	Connector Na	ume JOINT	Connector Name JOINT CONNECTOR-B10
	SWI	SWITCH	Connector Color WHITE	olor WHITE	ш	Connector Color WHITE	olor WHITE	
Connector Color BLACK	olor BLA	X				é		
原 H.S.	9 0 0	3 2 1 8 7	H.S.	4	3 2 1 🗍	阿克斯 H.S.		3 2 1
						Terminal No. Color of	Color of	Signal Name
Terminal No. Color of Wire	Color of Wire	Signal Name	Terminal No. Color of Wire	Color of Wire	Signal Name	-	NIII -	ı
4	re	1	-	۵	1	2		1
8	BB	1	2	۵	I			

			2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	TO WIRE		26 25 24 23 22 21 20 19	Signal Name	I	ı
B32	ne WIRE	or WHIT	15 14 13 12 11 31 30 29 28 27	Color of Wire	_	۵
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. 16 15 32 31	Terminal No. Wire	18	19
	2					
	Connector Name JOINT CONNECTOR-B12			Signal Name	ı	1
B17	NIOC	WHITE	4 3 2	color of Wire	_	_
Connector No. B17	Connector Nam	Connector Color WHITE	H.S.	Terminal No. Color of Wire	-	2
			•			•



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Connector No. B63 Connector Name JOINT CONNECTOR-B01 Connector Color WHITE H.S.	Connector No. B101 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE	A B C
Conne Conne Termir	Conne Conne Termir	E F
am e	awe awe	G
WIRE TO WIRE GRAY 1 2 3 4 5 6 7 8 8 7 8 9 7 10 10 10 10 10 10 10 10 10 10 10 10 10	Signal Name	Н
ctor No.	Color of Wire Wire Wire Wire Wire Wire	I
Connec Connec Connec	Terminal 79A 89A 89A 90A	J
23 11 23 54 12 59 69 69 69 69 69 69 69 69 69 69 69 69 69	39 124 114 39 124 114 39 224 39 224 39 524 514 39 524 524 39 524 714 39 524 524	EXL
Connector No. B46 Connector Name WIRE TO WIRE Connector Color WHITE H.S. 1 2 3 4 5 6 7 8 9 10 11 12 1 1 15 16 17 18 19 20 21 22 23 24 15 16 17 18 19 20 21 22 23 24 15 16 17 18 19 20 21 22 23 24 2 23 24 2 23 24 2 23 24 2 23 24 2 23 24 2 23 24 2 23 24 2 23 24 2 23 24 2 2 23 24 2 2 23 24 2 2 2 2	Connector No. B69 Connector Name WIRE TO WIRE Connector Color GRAY 100 99 80 17 10 10 10 10 10 10 10 10 10 10 10 10 10	М
Connector No.	Connector No. Connector Name Connector Color H.S. #11	N O
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Connector No. D505		Š	Connector No. D507	D207		Connector No. D550	D25(0
onnector Name WIRE TO WIRE	3E	Cor	nnector Nan	ne WIRE	TO WIRE	Connector Name WIRE TO WIRE	me WIR	E TO WIRE
Connector Color WHITE		S	Connector Color WHITE	or WHIT	Ē	Connector Color WHITE	or WHI	TE
6 5 4 3		E T	S.T.	8 7 6 5 4 16 15 14 13 12	4 27 8 1- 1 0 01 1 0 0	 呵可 H.S.	- E	4 5 6 2
Terminal No. Color of Signal	nal Name	Ter	Color of Wire	Solor of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
В	1		8	p_	1	-	В	I

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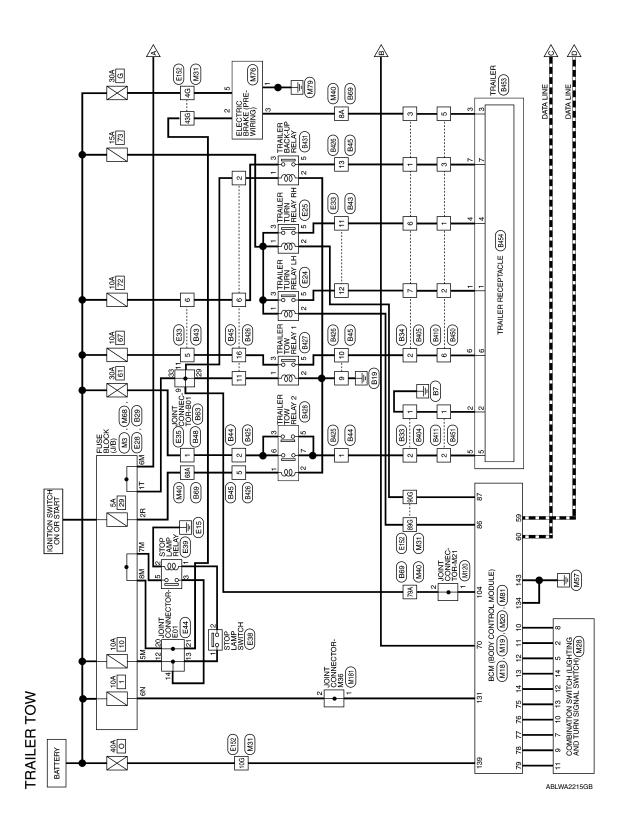
BACK-UP LAMP LH WHITE		Signal Name	1	I
ne BACK-L or WHITE		Color of Wire	re	В
Connector Name Connector Color	赋利 H.S.	Terminal No.	-	2
P RH		Signal Name	1	ı
BACK-UP LAMP RH WHITE	2	Signal		
		Color of Wire	LG	В
Connector Name	斯 H.S.	Terminal No.	-	7
) WIRE	5 6 7 8 13 14 15 16	Signal Name	I	
WIRE TO	2 3 4 10 11 12	Color of Wire	re	
Connector Name WIRE TO WIRE Connector Color WHITE	- 0	al No. W		
Connec	H.S.	Terminal No.	∞	

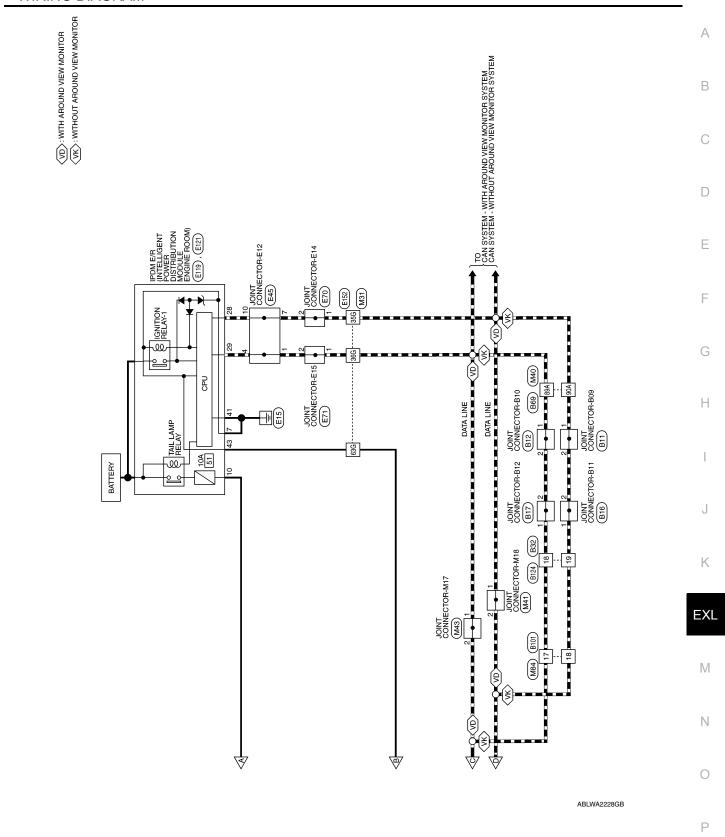
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TRAILER TOW

Wiring Diagram

INFOID:0000000009175361





Revision: May 2013 EXL-91 2014 Pathfinder

Connector Name | BCM (BODY CONTROL | MODULE)

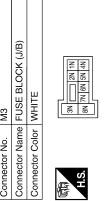
M19

Connector No.

Connector Color BLACK

TRAILER TOW CONNECTORS

M18	onnector Name BCM (BODY CONTROL	MODULE)	GREEN
Connector No.	Connector Name		Connector Color GREEN
. M3	onnector Name FUSE BLOCK (J/B)	lor WHITE	1
Connector No.	Connector Nan	Connector Col	



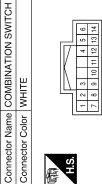
8N 7N 6N 5N 4N	Signal Name	1
<u>8</u>	Color of Wire	Ν
S.	Terminal No. Wire	N9

	42 41	62 61										
	43	83										
	4	94				_	2	4	က	7	-	
	45	65	Φ			_	5	5	5	T)	L	
l	46	99	am	ب	ェ	ಠ	0	0	0	0	0	
	47	67	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	
	48	89	na	Ö	0	3	 	<u>m</u>	<u></u>	8	8	
	49	69	Sig			z	Ĭ	Ž	Ž	M	M	
	20	70				≅	8	8	엉	$^{\circ}$	2	
	5	71					_	_	-	_	_	
	52	72	4									
1	53	73	Color of Wire		١.		רט					
l	54	74	olor c Wire	Ь	_	Д.	BG	Д	ш	g	8	
l	22	76 75										
l	99	9/	ġ.									
l	22	77	<u>_</u>			_						
l	28	9 78	in	59	9	2	75	9/	77	78	79	
	69 (79	Terminal No.									
L	9	8										

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	Α	BG	œ	G	Ь
Terminal No. 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	Μ	BG	œ	В	۵
Terminal No. Wire	10	=	12	13	14

Signal Name	ı	1	l	1	1	l	1	1	1	l
Color of Wire	BG	ш	Ж	Μ	9	Ь	M	Ь	BG	ŋ
Terminal No. Wire	2	5	7	80	6	10	11	12	13	14



M28

Connector No.

M20

Connector No.





Connector Na	ame BCN MO	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GRAY	olor GRA	Т
E		
26	91 90 89	88 87 86 85 84 83 82 81
ė į	104 103 102 101 100 99	100 99 98 97 96 95 94 93
Terminal No.	Color of Wire	Signal Name
98	В	TRAILER FLASHER RL
87	Ь	TRAILER FLASHER RR
104	ГG	REVERSE LAMP OUT

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Name Name	В
T CONNECTOR-N Signal Name	С
lo. M41 Color of Wire P P P	D
Connector No. M41	Е
	F
M40 NIRE TO WIRE SA SA SA SA SA SA SA S	G H
M40 MRE TO WIRE M90 M9	ı
Connector Name Connector Name Connector Color Terminal No. Color 88	J
	К
WIRE TO WIRE WHITE WIRE TO WIRE WHITE EXL	
WIRIN WIRI	N
Connector No. Connector Name Connector Name Connector Color Co	0
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Connector No.). M76	9
Connector Name		ELECTRIC BRAKE (PRE-WIRING)
Connector Color		WHITE
所 H.S.	2 -	3 4 5
Terminal No.	Color of Wire	Signal Name
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8	Μ	-
4	-	ı
2	9	-
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		<u>88</u>		
Connector Name FUSE BLOCK (J/B)	NMC	78 [68] 58] 48] [[[] 38] 28] 1 168] 158] 148] 138] 128] 118] 108] 38] 28]	Signal Name	ı
ime FUS	lor BR0	7R 16R1	Color of Wire	ГG
Connector Na	Connector Color BROWN	南河 H.S.	Ferminal No. Color of Wire	2R

Connector No.	M43	
or Nar	ne JOII	Connector Name JOINT CONNECTOR-M17
r Col	Connector Color WHITE	TE
	4	4 3 2 1
9 9	Terminal No. Wire	Signal Name
	٦	1
	7	1

Connector No.	o. M120	0;
Connector Na	ame JOII	Connector Name JOINT CONNECTOR-M21
Connector Color WHITE	olor WH	TE
中 H.S.	4	4 3 2 1
Terminal No.	Color of Wire	Signal Name
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0	5	1

			1 1 1			
	WIRE TO WIRE	TE	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 2 2 2 10 19 18	Signal Name	ı	1
M84	ıme WIF	lor WH	16 15 14 13 12 11 10 32 31 30 29 28 27 26	Color of Wire	_	Ь
Connector No.	Connector Name	Connector Color WHITE	(16) (16) (16) (16) (16) (16) (16) (16)	Terminal No. Wire	17	18

Connector No.). M81	
Connector Name	ame BCI MO	BCM (BODY CONTROL MODULE)
Connector Color WHITE	olor WH	<u></u>
原有 H.S.	137136135	
Terminal No.	Color of Wire	Signal Name
131	>	BAT BCM FUSE
134	В	GND 2
139	>	BAT POWER F/L
143	В	GND 1

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Connector No.E24Connector No.E25Connector NameTRAILER TURN RELAY LHConnector NameTRAILER TURN RELAY RH	Connector Color BLUE Connector Color BLUE	(本) (本) (本) (本) (本) (本) (本) (本) (本) (本)	Terminal No. Color of Wire Signal Name Terminal No. Color of Wire		2 R	1 a c	- C C		Connector No. E33 Connector No. E35	Connector Name WIRE TO WIRE	Connector Color WHITE Connector Color GRAY
Connector No. M181 Connector Name JOINT CONNECTOR-M36	Connector Color WHITE	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Terminal No. Color of Signal Name Wire	1 W –	2 W –				Connector No. E28	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE

E28	3		Connector No.	. E33			Connector No.	. E35		
me FU	FUSE BLOCK (J/B)		Connector Name WIRE TO WIRE	me WIRE	E TO WIRE		Connector Name WIRE TO WIRE	me WIRI	E TO WIRE	
lor WH	WHITE		Connector Color WHITE	lor WHI	Ш		Connector Color GRAY	lor GRA	Α	
4M 10M	3M		原 H.S.	5 11 11	11 10 9 8 7 6 1		所 H.S.			
Color of Wire	Signal Name		Terminal No. Wire	Color of Wire	Signal Name		Terminal No. Wire	Color of Wire	Signal Name	
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Signal Name	1	1	ı	1
Color of Wire	Υ	٦	Я	æ
Terminal No.	5M	M9	MZ	8M

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Connector No. E44 Connector Name JOINT CONNECTOR-E01 Connector Color WHITE LITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 4 3 2 11 A.S. TITTO 9 8 7 6 5 8 4 3 2 11 A.S. TITTO 9 8 7 6 5 8 4 3 2 11 A.S. TITTO 9 8 7 6 5 8 4 3 2 11 A.S. TITTO 9 8 7 7 6 5 8 2 1 2 11 A.S. TITTO 9 8 7 7 6 5 8 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	Terminal No. Color of Wire Signal Name 12 Υ - 13 Υ - 20 R - 21 R - 21 R -	Connector No. E71 Connector Name JOINT CONNECTOR-E15 Connector Color BLACK ##S.	Terminal No. Color of Signal Name 1 L
Connector No. E39 Connector Name STOP LAMP RELAY Connector Color BLUE	Terminal No. Color of Signal Name 1 W - 2 B - 3 Y - 5 R -	Connector No. E70 Connector Name JOINT CONNECTOR-E14 Connector Color BLACK	Terminal No. Color of Signal Name 1 P
Connector No. E38 Connector Name STOP LAMP SWITCH Connector Color WHITE H.S.	Terminal No. Color of Wire Signal Name	Connector No. E45 Connector Name JOINT CONNECTOR-E12 Connector Color BLUE	Terminal No. Color of Vire Signal Name 1

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								Connector Name JOINT CONNECTOR-B09			2 1 1			Signal Name	ı	1							
							lo. B11	lame JOINT C	Connector Color WHITE	╟				. Wire	Ь	۵.							
							Connector No.	Connector N	Connector C		ATT TO	Ċ.		Terminal No.	-	2							
	7												I										
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	11 01 6	12 13 14 15 16 17 18	Signal Name	GND (POWER)	TAIL LH		Signal Name		1	1	ı	ı	ı	-	1								
		12 13 14	Color of Wire	В			Color of		<u> </u>	. a		Œ	_	æ									
Connector Name	恒	H.S.	Terminal No.	7	10		Terminal No		2 5	356	36G	43G	63G	89G	90G								
	₁ [33 34 49 50																					
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE		24 25 28 27 28 29 30 31 32 33 34 40 41 42 43 44 45 46 47 48 49 50	Signal Name	CAN-L	CAN-H	GND (SIGNAL) IGN SIGNAL		TO WIRE	ш		-	36 26 16		21G20G19G18G17G16G15G14G13G12G11G	28G 27G 26G 25G 24G 23G 22G	41G40G39G38G37G36G35G34G33G32G31G 50G49G48G47G46G45G44G43G42G	61 Georg 59 G 58 G 57 G 56 G 55 G 54 G 53 G 52 G 51 G	68G 67G 66G 65G 64G 63G 62G	810 806 739 786 776 766 759 746 739 726 716 906 890 886 870 866 850 846 830 826		956 946 936 926 916 1006 996 986 976 966		
]	20 21 22 23 2 36 37 38 39 4	Color of Wire	Д	7	В В). E152	me WIRE	olor WHIT		<u> </u>	g (\$	2	21G20G19G	30G 29G	41G40G39G	61G60G59G	700,000	81G80G79G 90G89G] [8 0		
Connector Name Connector Color		လုံ ခြုံဆို	Terminal No.	28	29	41	Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE			ė.											
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Signal Name

Terminal No. Wire

Signal Name

Color of Wire

Terminal No.

Signal Name

Terminal No. Color of Wire

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Connector No. B12 Connector Name JOINT CONNECTOR-B10 Connector Color WHITE	Connector No. B16 Connector Name JOINT CONNECTOR-B11 Connector Color WHITE	Connector No. B17 Connector Name JOINT CONNECTOR-B12 Connector Color WHITE
(1432110) H.S.	(南) (14.3/2/10) (H.S.	(南) (1 1 1 1 1 1 1 1 1 1
Terminal No. Color of Signal Name	Terminal No. Color of Wire Signal Name	Terminal No. Color of Wire Signal Name
- L	2 P	2 L –
Connector No. B29 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name WIRE TO WIRE Connector Color BLACK
ET ST 1T ET ST AT ST ET	H.S. TiG 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 20 19 18 17	斯 H.S.

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Connector No. B34		Connector No. B43	No. B43		Connector No.	. B44	
Connector Name WIRE TO WIRE	RE TO WIRE	Connector N	Connector Name WIRE TO WIRE	TO WIRE	Connector Name WIRE TO WIRE	me WIRE	TO WIRE
Connector Color WHITE	ITE	Connector (Connector Color WHITE	Ш	Connector Color BLACK	lor BLACI	Α
- 4	0 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	南 H.S.	6 7 8	9 10 11 2	赋 H.S.	1 2	
Terminal No. Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Color of Wire	Color of Wire	Signal Name
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	JOINT CONNECTOR-B01	11		8 7 6 5 4 3 2 1	21 20 19 18 17 16 15 14 13 12	30 29 28 27 26 25 24 23	Signal Name	ı	1	1	-
. B63		lor WH		11 10 9	22 21 20 1	33 32 31 3	Color of Wire	BR	BR	≯	>
Connector No.	Connector Name	Connector Color WHITE	é	ا_∟	⊒₁⊑ -		Terminal No.	6	11	29	33
			_		_						

	E TO WIRE	>-		Signal Name	1
. B48	me WIRI	lor GRA		Color of Wire	>
Connector No.	Connector Name WIRE TO WIRE	Connector Color GRAY	南 H.S.	Terminal No.	-

	WIRE TO WIRE	IIE	3	Signal Name	1	_	_	_	_	_	_	1
. B45		lor WF	- 8 2 6	Color of Wire	BB	Ь	_	GR	×	Μ	Υ	н
Connector No.	Connector Name	Connector Color WHITE	原 H.S.	Terminal No.	2	5	9	6	10	11	13	16

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Revision: May 2013 EXL-99 2014 Pathfinder

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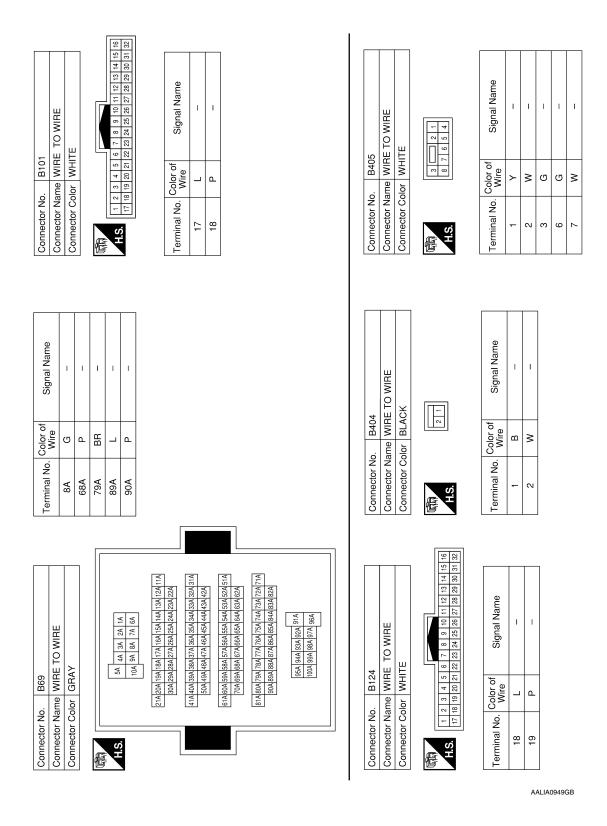
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Revision: May 2013 EXL-100 2014 Pathfinder

Connector No. B410 Connector Name WIRE TO WIRE Connector Color GRAY	Vo. B410 Vame WIRE	TO WIRE	Connector No. B411 Connector Name WIRE TO WIRE Connector Color BLACK	B411 ne WIRE To	O WIRE	Connector No. B425 Connector Name WIRE TO WIRE Connector Color BLACK	Vo. B425 Vame WIRE T	5 E TO WIRE CK	
H.S.	4	R 9 2 2 2 2 2 2 2 2 2	是 H.S.			때 H.S.	2		
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of	Signal Name	me
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9	3	1							
Connector No. B426 Connector Name WIRE TO WIR	Jo. B426 Jame WIRE	E TO WIRE	Connector No.	B427	Connector No. B427 Connector Name TRAILER TOW RELAY 1	Connector No. Connector Nan	lo. B428 lame TRAII	Connector No. B428 Connector Name TRAILER TOW RELAY 2	AY 2
Connector Color	Solor WHITE		Connector Color	or BLUE		Connector Color	color BROWN	NWC	
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Terminal No. Wire	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	ше
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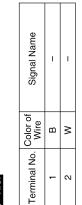
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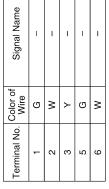
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EXL-101 Revision: May 2013 2014 Pathfinder

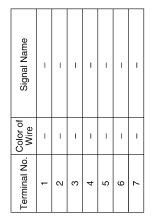
Connector No.	B451
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color BLACK	BLACK
原 H.S.	

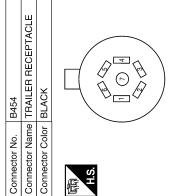


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Connector Name	ame WIF	WIRE TO WIRE	
Connector Color GRAY	olor GR/	٨Ł	
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Terminal No. Wire	Color of Wire	Signal Name	
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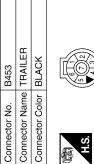


1	TRAILER BACK-UP RELAY	<u> </u>	23		Signal Name	ı	ı	ı	-
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Connector No.	Connector Name	Connector Color		Ġ.	Terminal No.	-	2	က	5













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<i>'</i>	Color of Wire	M	В	ŋ	В	M	Μ	У
	Terminal No.	Į.	7	3	7	2	9	2

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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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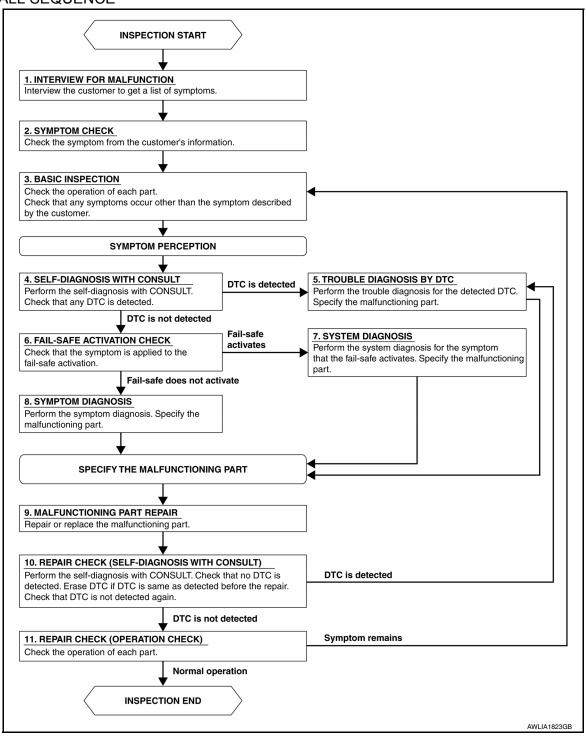
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OVERALL SEQUENCE



DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2.

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3.

3.BASIC INSPECTION

Check the operation of each part. Check any concerns that occur other than those mentioned in the customer interview.

>> GO TO 4.

4. SELF-DIAGNOSIS WITH CONSULT

Perform the self-diagnosis with CONSULT. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

5. TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9.

6. FAIL-SAFE ACTIVATION CHECK

Determine if the customer's concern is related to fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.

NO >> GO TO 8.

7. SYSTEM DIAGNOSIS

Perform the system diagnosis for the system in which the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

8.SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Refer to EXL-129, "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 > YES >> GO TO 5. NO >> GO TO 11. Α 11. REPAIR CHECK (OPERATION CHECK) Check the operation of each part. В Does it operate normally? >> Inspection End. YES >> GO TO 3. NO С D Е F G Н J Κ

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000009764019

Regarding Wiring Diagram information, refer to BCS-55, "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

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

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

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

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

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 >

1. CHECK FUSIBLE LINKS

Check that the following fusible links are not blown.

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

Is the fusible link blown?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

IPDI	M E/R	Ground	Voltage (Approx.)	
Connector	Terminal	Giodila		
E118	1		Battery voltage	
E110	2	_		
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	Continuity	
Connector	Terminal		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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Revision: May 2013 EXL-107 2014 Pathfinder

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP (HI) CIRCUIT

Description INFOID.000000009175365

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:0000000009175366

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.

WITH CONSULT

- Select EXTERNAL LAMPS 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 <u>EXL-108</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000009175367

Regarding Wiring Diagram - Refer to EXL-21, "Wiring Diagram".

1. CHECK HEADLAMP (HI) FUSES

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

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

Is the fuse blown?

YES >> Replace the blown 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 E233 or E238.
- Turn the ignition switch ON.
- Select EXTERNAL LAMPS 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	E238	2		Battery voltage
LH	E233	3	Ground	Ballery Vollage

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	E217	80	E238	3	Yes
LH	EZII	81	E233	3	165

Is the inspection result normal?

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

NO >> Repair or replace the harness or connector.

4. CHECK FRONT COMBINATION LAMP (HI) GROUND CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Check continuity between the front combination lamp harness connector terminal 4 and ground.

	Connector	Terminal	_	Continuity
RH	E238	4	Ground	Yes
LH	E233	4	Ground	163

Is the inspection result normal?

YES >> Replace the headlamp bulb.

NO >> Repair or replace the harness or connector.

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Revision: May 2013 EXL-109 2014 Pathfinder

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP (LO) CIRCUIT

Description INFOID:0000000009175368

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:0000000009175369

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.

(P)CONSULT

- Select EXTERNAL LAMPS 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-110, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009175370

Regarding Wiring Diagram information - Refer to EXL-21, "Wiring Diagram".

1. CHECK HEADLAMP (LO) FUSES

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

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

Is the fuse blown?

YES >> Replace the blown 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 E232 or E237.
- Turn the ignition switch ON.
- 4. Select EXTERNAL LAMPS of IPDM E/R active test item.
- With EXTERNAL LAMP ON, check the voltage between the front combination lamp harness connector E232 or E237 terminal 1 and ground.

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

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

RH	E232	1	Ground	Battery voltage
 LH	E237	1	Ground	Dattery voltage

Is the inspection result normal?

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 E232 or E237.

	IPDM E/R		Front combination lamp		Continuity
Con	nector	Terminal	Connector	Terminal	Continuity
RH	E217	76	E232	1	Yes
LH	E217	75	E237	'	165

Is the inspection result normal?

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

NO >> Repair or replace the harness or connector.

4. CHECK FRONT COMBINATION LAMP (LO) GROUND CIRCUIT

1. Turn the ignition switch OFF.

2. Check continuity between the front combination lamp harness connector E232 or E237 terminal 2 and ground.

Con	nector	Terminal	_	Continuity
RH	E232	2	Ground	Yes
LH	E237	2	Ground	163

Is the inspection result normal?

YES >> Replace the headlamp bulb.

NO >> Repair or replace the harness or connector.

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DAYTIME LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DAYTIME LIGHT RELAY CIRCUIT

Description INFOID:000000009175371

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

Diagnosis Procedure

INFOID:0000000009175372

Regarding Wiring Diagram information, refer to EXL-29. "Wiring Diagram".

1. CHECK DAYTIME LIGHT RELAY VOLTAGE SUPPLY

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

(+)	(-)	Voltage	
Connector	Terminal	(-)	voltage	
	2	0 1		
E4	5	Ground	Battery voltage	
	7			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DAYTIME LIGHT RELAY CIRCUIT

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

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

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

Connector	Terminal	(—)	Continuity
E121	14	Ground	No

Is the inspection result normal?

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

NO >> Repair or replace the harness or connector.

3.CHECK DAYTIME LAMP RELAY COIL CIRCUIT

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

DAYTIME LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

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

Connector	Terminal	Ground	Continuity
E218	85	Ground	No

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connector.

4. CHECK DAYTIME LIGHT RELAY

Check the daytime light relay. Refer to EXL-113, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace relay.

5. CHECK DAYTIME LAMP CIRCUIT FOR OPEN

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

Front fo	og lamp	Daytime light relay		Continuity
Connector	Terminal	Connector	Terminal	Continuity
LH E303	2	E4	3	Yes
RH E304	3	C 4	6	165

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the harness or connector.

6.CHECK DAYTIME LAMP GOUND CIRCUIT FOR OPEN

- 1. Disconnect front fog lamp harness connector E303 or E304 in question.
- 2. Check continuity between the front fog lamp harness connector E303 or E304 terminal 12 and ground.

Connector	Terminal	(-)	Continuity
LH E303	1	Ground	Yes
RH E304	7	Oround	163

Is the inspection result normal?

YES >> Check the daytime light system relay. Refer to EXL-113, "Component Inspection".

NO >> Repair or replace the harness or connector.

Component Inspection

1. CHECK DAYTIME LIGHT RELAY CONTINUITY

- 1. Turn ignition switch OFF.
- Remove daytime light relay.
- 3. Apply 12V direct current between daytime light relay terminals and check continuity.

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DAYTIME LIGHT RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Terminal	Condition	Continuity
3 - 5	12V direct current applied between terminals 1 and 2.	Yes
6 - 7	No current applied.	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace daytime light relay.

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT FOG LAMP CIRCUIT

Description INFOID:0000000009175374

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

${f 1}$.CHECK FRONT FOG LAMP OPERATION

®WITHOUT CONSULT

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

(P)WITH CONSULT

- 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.

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

Is the front fog lamp turned ON?

>> Front fog lamp circuit is normal. YES

NO >> Refer to EXL-115, "Diagnosis Procedure".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to EXL-48, "Wiring Diagram".

1. CHECK FRONT FOG LAMP FUSE

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

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

Is the fuse blown?

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

(+)		(-)	Voltage	
С	onnector	Terminal	(-)	(Approx.)
LH	E305	1	Ground	Battery voltage
RH	E306	ı	Ground	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

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FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK FRONT FOG LAMP OPEN CIRCUIT

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

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

Is the inspection result normal?

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

NO >> Repair or replace the harness or connector.

4. CHECK FRONT FOG LAMP GROUND CIRCUIT

- 1. Turn the ignition switch OFF.
- 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	165

Is the inspection result normal?

YES >> Inspect the fog lamp bulb.

NO >> Repair or replace the harness or connector.

< DTC/CIRCUIT DIAGNOSIS >

PARKING LAMP CIRCUIT

Description INFOID:0000000009175377

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 combination lamps, rear combination lamps and license plate lamps.

Component Function Check

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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.

WITH CONSULT

- 1. Select EXTERNAL LAMPS of IPDM E/R active test item.
- 2. While operating the test items, check that the parking lamp is turned ON.

TAIL : Parking lamp ON
Off : Parking lamp OFF

Is the parking lamp turned ON?

YES >> Parking lamp circuit is normal.

NO >> Refer to EXL-117, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009175379

Regarding Wiring Diagram information, refer to EXL-64, "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)

- Disconnect the front or rear combination lamp connector or license plate lamp connector in question.
- Turn the ignition switch ON.
- 3. Turn the parking lamps ON.
- With the parking lamps ON, check voltage between the front combination lamp (parking) connector and ground.

Front combination lamp (parking)			()	Voltage
Connector		Terminal	(-)	(Approx.)
LH	E235	7	Ground	Battery voltage
RH	E240	/	Ground	battery voltage

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

Front combination lamp (side marker)			(-)	Voltage
	Connector	Terminal	(-)	(Approx.)
LH	E236	0	Ground	Pattory voltage
RH	E241	9	Ground	Battery voltage

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

Rear c	combination lamp (tail)		(-)	Voltage
	Connector	Terminal	(-)	(Approx.)
LH	B406	3	Ground	Rattery voltage
RH	B407	3	Ground	Battery voltage

7. With the parking lamps ON, check voltage between the rear combination lamp (side marker) connector and ground.

Rear comb	ination lamp (side marker)		(-)	Voltage (Approx.)
	Connector	Terminal	()	
LH	B412	6	Ground	Rattery voltage
RH	B413		Ground	Battery voltage

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

License plate lamp Connector			()	Voltage
		Terminal	(-)	(Approx.)
LH	D561	1	Ground	Pattory voltage
RH	D562	1	Ground	Battery voltage

Are the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK PARKING LAMP CIRCUIT (OPEN)

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

IPDM E/R			Front combinati	Continuity		
Conne	ector	Terminal	Connector Terminal		Continuity	
LH	E218	90	E235	7	Yes	
RH			E240	,	165	

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

	IPDM E/R		Front combination lamp (side marker)		
Со	nnector	Terminal	Connector	Terminal	

< DTC/CIRCUIT DIAGNOSIS >

LH	⊏ 210	00	E236	0	Voc
RH	LZIO	90	E241	9	Yes

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

Continuity	n lamp (tail)	Rear combination	IPDM E/R		
Continuity	Terminal	Connector Terminal		ector	Conne
Yes	2	B406	10	E121	LH
ies	3	B407	9	E121	RH

6. Check continuity between the IPDM E/R harness connector and the rear combination lamp (side marker) harness connector.

	IPDM E/R		Rear combination lamp (side marker)		marker)
Co	nnector	Terminal	Connector	Terminal	
LH	E218	10	B412	6	Yes
RH	L210	9	B413	0	165

7. 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	1	Yes
RH	RH E121	10	D562	'	res

Are the inspection result 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. Turn the ignition switch OFF.

2. Check continuity between the front combination lamp (parking) harness connector and ground.

Front combination lamp (parking)			()	Continuity	
	Connector	Terminal	(-)	Continuity	
LH	E235	0	Ground	Yes	
RH	E240	ð	Ground		

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

Front combination lamp (side marker)			()	Continuity
	Connector	Terminal	(-)	Continuity
LH	E236	10	Ground	Yes
RH	E241	10	Ground	165

4. Check continuity between the rear combination lamp (tail) harness connector and ground.

Rear combination lamp (tail)		(-)	Continuity
Connector	Terminal	(-)	

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LH	B406	2	Cround	Voc
RH	B407	2	Ground	res

5. Check continuity between the rear combination lamp (side marker) harness connector and ground.

Rear combination lamp (side marker)			()	Continuity
	Connector Terminal		(-)	Continuity
LH	B412	7	Ground	Yes
RH	B413	7	Ground	

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

License plate lamp			()	Continuity
Connector		Terminal	(-)	
LH	D561	2	Ground	Yes
RH	D562	2	Ground	

Are the inspection result normal?

YES >> Inspect the parking, side marker or license plate lamp bulb.

NO >> Repair or replace the harness or connector.

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL LAMP CIRCUIT

Description INFOID:0000000000175380

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 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

(P)CONSULT

1. Select FLASHER of BCM (FLASHER) active test item.

2. While operating the test items, check that the turn signal lamp blinks.

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

Is the inspection result normal?

YES >> Turn signal lamp circuit is normal.

NO >> Refer to EXL-121, "Diagnosis Procedure".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <a>EXL-56, "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 inspection result normal?

YES >> GO TO 2.

NO >> Replace the bulb.

2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

Turn the ignition switch OFF.

- 2. Disconnect the front or rear combination lamp harness connector in question.
- 3. Turn the ignition switch ON.
- 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

< DTC/CIRCUIT DIAGNOSIS >

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

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

	(+) Connector Terminal		(-)	Voltage (Approx.)	
			(-)	(Approx.)	
RH	B409				
LH	B408	4	Ground	(V) 15 10 5 0 PKID0926E	

Is the inspection result normal?

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.
- 3. Check continuity between the BCM harness connector M80 and the front combination lamp harness connector.

ВСМ		Front comb	ination lamp	Continuity	
Cor	nnector	Terminal	Connector	Terminal	Continuity
LH	M80	117	E234	5	Yes
RH	IVIOO	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
Co	nnector	Terminal	Connector	Terminal	Continuity
LH	M20	103	B408	1	Yes
RH	IVIZU	92	B409	4	165

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connector.

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 >

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

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

	ВСМ			Continuity
Cor	nnector	Terminal	Ground	Continuity
LH	M20	103	Ground	No
RH	IVIZU	92		INU

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".

NO >> Repair or replace the harness or connector.

5. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

1. Turn the ignition switch OFF.

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

	Front combination lamp	()	Continuity		
Connector		Terminal	(-)	Continuity	
LH	E234	6	Ground	Yes	
RH	E239	O	Giouna	res	

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

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

Is the inspection result normal?

YES >> Replace the malfunctioning lamp.

NO >> Repair or replace the harness or connector.

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OPTICAL SENSOR

Description INFOID:000000009175383

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

Component Function Check

INFOID:0000000009175384

1. CHECK OPTICAL SENSOR SIGNAL TO BCM

(P)CONSULT

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

Monitor item	Condition	Voltage (Approx.)
ODTI 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 EXL-124, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009175385

Regarding Wiring Diagram information, refer to <u>EXL-40, "Wiring Diagram"</u>.

1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

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

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

2.CHECK OPTICAL SENSOR GROUND INPUT

Check voltage between optical sensor harness connector and ground.

(+) Optical sensor		(-)	Voltage (Approx.)
Connector	Terminal		(Approx.)
M15	3	Ground	0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 6.

3. CHECK OPTICAL SENSOR SIGNAL OUTPUT

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

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

(+) Optical sensor		(-)	Condition		Voltage (Approx.)
Connector	Terminal				(
M15	2	Ground	Ontical concer	When illuminating	3.1 V or more *
IVITO	2	Giouna	Optical sensor	When shutting off light	0.6 V or less

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

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace the optical sensor. Refer to EXL-146, "Removal and Installation".

4. CHECK OPTICAL SENSOR OPEN CIRCUIT

- 1. 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		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M15	1	M18	3	Yes

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the harness or connector.

CHECK OPTICAL SENSOR SHORT CIRCUIT

Check continuity between optical sensor harness connector and ground.

Optical sensor			Continuity
Connector	Terminal	Ground	Continuity
M15	1		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".

NO >> Repair or replace the harness or connector.

O.CHECK OPTICAL SENSOR GROUND OPEN CIRCUIT

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

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".

NO >> Repair or replace the harness or connector.

.CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

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

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OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Optical	sensor	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M15	2	M18	4	Yes

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the harness or connector.

8.CHECK OPTICAL SENSOR SHORT CIRCUIT

Check continuity between optical sensor harness connector and ground.

Optical sensor			Continuity
Connector	Terminal	Ground	Continuity
M15	2		No

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-80, "Removal and Installation"</u>.

NO >> Repair or replace the harness or connector.

HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

HAZARD SWITCH

Component Function Check

INFOID:0000000009175386

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1. CHECK HAZARD SWITCH SIGNAL BY CONSULT

(E)CONSULT DATA MONITOR

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

Monitor item	Con	Monitor status	
HAZARD SW	O SW Hazard switch	ON	On
HAZAKO OW	riazaru switch	OFF	Off

Is the inspection result normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to EXL-127, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009175387

Regarding Wiring Diagram information, refer to EXL-56, "Wiring Diagram".

1. CHECK HAZARD SWITCH SIGNAL INPUT

- Turn ignition switch OFF.
- 2. Disconnect hazard switch harness connector M26.
- Turn ignition switch ON.
- Check voltage between hazard switch harness connector M26 and ground.

Hazaro	(+) Hazard switch Connector Terminal		Voltage (Approx.)
M26	2	Ground	(V) 15 10 5 0 → 10ms JPMIA0154GB

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.check hazard switch signal open circuit

- Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M18.
- Check continuity between hazard switch harness connector and BCM harness connector.

Hazaro	Hazard switch		ВСМ	
Connector	Terminal	Connector	Terminal	Continuity
M26	2	M18	36	Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the harness or connector.

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HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

Check continuity between hazard switch harness connector and ground.

Hazard switch			Continuity
Connector	Terminal	Ground	Continuity
M26	2		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".

NO >> Repair or replace the harness or connector.

4. CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

Check continuity between hazard switch harness connector and ground.

Hazard switch			Continuity
Connector	Terminal	Ground	Continuity
M26	3		Yes

Is the inspection result normal?

YES >> Replace hazard switch. Refer to EXL-148, "Removal and Installation".

NO >> Repair or replace the harness or connectors.

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

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.

Symptom		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 Harness between the front combination lamp and ground	Headlamp (HI) circuit Refer to <u>EXL-108</u> .
	Both sides	_	Symptom diagnosis BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM Refer to EXL-132.
High beam indicator lamp is not turned ON (Head-lamp switched to the high beam).		BCM Combination meter	Combination meter Data monitor HI-BEAM IND BCM (HEAD LAMP) Active test "HEADLAMP"
Headlamp does not switch to the low beam.		Combination switch (lighting and turn signal switch) Harness between the combination switch and BCM BCM IPDM E/R	Combination switch (lighting and turn signal switch) Refer to BCS-79.
		High beam request signal BCM IPDM E/R	IPDM E/R Data monitorHL HI REQ
Headlamp does not turn ON.	One side	Fuse Harness between IPDM E/R and the front combination lamp Front combination lamp Harness between the front combination lamp and ground	Headlamp (LO) circuit Refer to EXL-110.
	Both sides	_	Symptom diagnosis BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON Refer to EXL-133.
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 BCS-79.
	The ignition switch is turned OFF (After activating the battery saver).	IPDM E/R	_
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-79.
		Optical sensor Harness between optical sensor and BCM BCM	Optical sensor Refer to EXL-124.

Revision: May 2013 EXL-129 2014 Pathfinder

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EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

Symp	otom	Possible cause	Inspection item
Daytime light system does not activate. (if equipped)		Fuse Harness between IPDM E/R and the daytime light relay Harness between daytime light relay and the daytime lamp Harness between the daytime lamp and ground Daytime light bulb IPDM E/R Daytime light relay BCM	Symptom diagnosis Daytime light system inoperative. Refer to EXL-136.
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-115</u> .
	Both sides	_	Symptom diagnosis BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON Refer to EXL-115.
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 EXL-117.
	Both sides	_	Symptom diagnosis PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON Refer to EXL-134.
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-121.
	One side	Combination meter	_
Turn signal indicator lamp does not blink.	Both sides (Always)	Turn signal indicator lamp signal BCM Combination meter	Combination meter Data monitor TURN IND BCM (FLASHER) Active test FLASHER
	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-59.
 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-127.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description A

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 >

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description INFOID:000000009175390

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

Diagnosis Procedure

INFOID:0000000009175391

1.combination switch (Lighting and turn signal switch) inspection

Check the combination switch (lighting and turn signal switch). Refer to <u>BCS-79</u>, "Symptom Table". Is the inspection result 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. While operating the lighting switch, check the monitor status.

Monitor item	Condition		Monitor status
HL HI REQ	Lighting switch position	HI or PASS	ON
	Lighting switch position	Except for HI or PASS	OFF

Is the inspection results normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-80, "Removal and Installation".

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-108, "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.

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description INFOID:000000000175392

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

Diagnosis Procedure

INFOID:0000000009175393

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

Check the combination switch (lighting and turn signal switch). Refer to BCS-79, "Symptom Table".

Is the inspection results normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

©CONSULT DATA MONITOR

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

Monitor item	Condition		Monitor status
HL LO REQ Lighting switch p	Lighting switch position	Headlamp	ON
	Lighting switch position	OFF	OFF

Is the inspection results normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-80, "Removal and Installation".

3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to EXL-110, "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.

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Revision: May 2013 EXL-133 2014 Pathfinder

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

< SYMPTOM DIAGNOSIS >

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

Description INFOID:000000000175394

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

Diagnosis Procedure

INFOID:0000000009175395

${f 1}$.combination switch (lighting and turn signal switch) inspection

Check the combination switch (lighting and turn signal switch). Refer to BCS-79. "Symptom Table".

Is the inspection results normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

®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	Con	Monitor status	
TAIL&CLR REQ	Lighting switch position	Parking lamp	ON
	Lighting Switch position	OFF OFF	OFF

Is the inspection results normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-80, "Removal and Installation".

PARK LAMP CIRCUIT INSPECTION

Check the parking lamp circuit. Refer to EXL-117, "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.

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:000000000175396

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

Diagnosis Procedure

INFOID:0000000009175397

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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-79, "Symptom Table".

Is the inspection results 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. While operating the front fog lamp switch, check the monitor status.

Monitor item	Condition		Monitor status
FR FOG REQ	Lighting switch position	Front fog lamp and Headlamp	ON
	Lighting switch position	OFF	OFF

Is the inspection results normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-80, "Removal and Installation".

3. FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-115, "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.

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Revision: May 2013 EXL-135 2014 Pathfinder

DAYTIME LIGHT SYSTEM INOPERATIVE

< SYMPTOM DIAGNOSIS >

DAYTIME LIGHT SYSTEM INOPERATIVE

Description INFOID:000000009175398

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:0000000009175399

1. CHECK DAYTIME LIGHT OPERATION

- 1. Perform BCM(HEADLAMP) DAYTIME RUNNING LIGHT active test. Refer to <u>BCS-18</u>, "HEADLAMP : <u>CONSULT Function (BCM HEADLAMP)"</u>.
- 2. Check that the daytime lights turn on.

Is the inspection results normal?

YES >> Replace BCM. Refer to BCS-80, "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 that 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-112, "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.

PERIODIC MAINTENANCE

HEADLAMP

Inspection B

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:

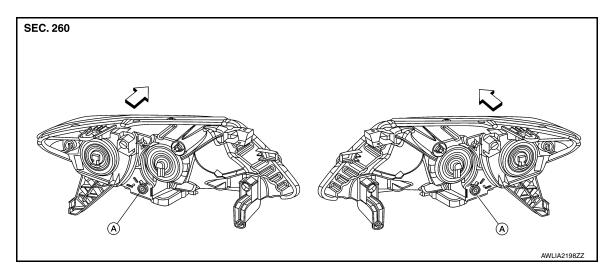
Do not use organic solvent (thinner, gasoline etc.)

- 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.
- 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



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

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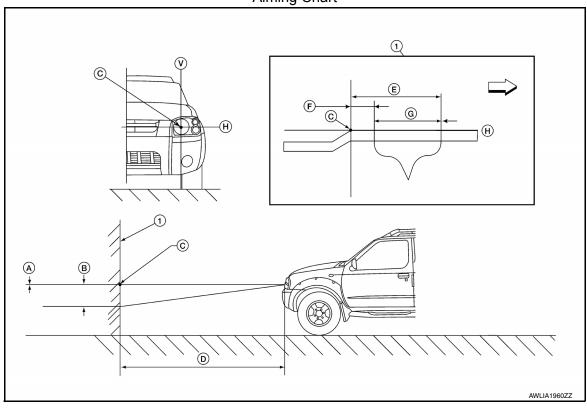
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Aiming Adjustment Procedure

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- 1. Adjustment screen
- C. Headlamp bulb center (H-V point)
- F. Minimum aim evaluation distance from vertical center on aiming screen 133 mm (1°R)
- V. Vertical aiming evaluation line
- A. Highest cutoff line height
- D. Distance of headlamp aiming screen from vehicle 7.62 m (25 ft)
- G. Aim evaluation area
- B. Lowest cutoff line height
- Maximum aim evaluation distance from vertical center on aiming screen 399 mm (3°R)
- H. Horizontal aiming evaluation line

A (Highest cutoff line height) -13.3

B (Lowest cutoff line height) 53.2

-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.
- 1. Use adjustment screw to perform aiming adjustment.
 - Ensure fog lamps (if equipped) are turned off.
- Block the opposite headlamp from projecting a beam pattern onto the adjustment screen, using a suitable object. Aim each headlamp individually.

CAUTION:

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

3. 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.

HEADLAMP

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

- 5. Start the engine and 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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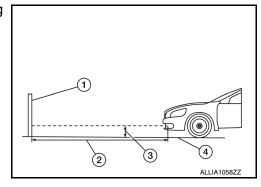
FRONT FOG LAMP AIMING ADJUSTMENT

Aiming Adjustment

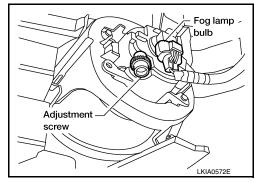
NOTE:

Check the following conditions before performing the aiming adjustment.

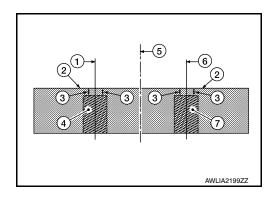
- Keep all tires inflated to correct pressure.
- · Place vehicle on level ground.
- See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have the driver or equivalent weight placed in driver seat.
- When performing adjustment, if necessary,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



- 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.



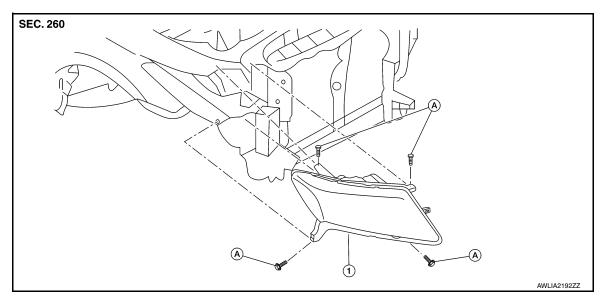
- (1) Vertical center line of left fog lamp.
- (2) Lamp center above ground.
- (3) 100 mm (4 in) (0.76 deg) below lamp center above ground.
- (4) Left fog lamp high intensity area.
- (5) Vehicle center axis.
- (6) Vertical center line of right fog lamp.
- (7) Right fog lamp high intensity area.



REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View INFOID:0000000009175403



1. Front combination lamp

Bolt

Removal and Installation

FRONT COMBINATION LAMP

- Disconnect the battery negative terminal. Refer to PG-90, "Removal and Installation".
- 2. Release the clips and pawls using a suitable tool and remove hoodledge finisher.
- Release front under cover clips and remove front under cover.
- 4. Remove front bumper fascia. Refer to EXT-17, "Removal and Installation".
- 5. Remove washer tank. Refer to <u>WW-54, "Removal and Installation"</u>.
- 6. Remove front combination lamp bolts.
- Pull front combination lamp forward.
- Disconnect the harness connectors from the front combination lamp.

Installation

Removal

Installation is in the reverse order of removal.

CAUTION:

After installation, perform headlamp aiming adjustment. Refer to EXL-138, "Aiming Adjustment Procedure".

HALOGEN BULB (LOW BEAM)

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

Rotate low beam bulb counterclockwise and remove.

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FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

Disconnect the harness connector from the low beam bulb.

Installation

Installation is in the reverse order of removal.

HALOGEN BULB (HIGH BEAM)

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. Rotate high beam bulb counterclockwise and remove.
- Disconnect the harness connector from the high beam bulb.

Installation

Installation is in the reverse order of removal.

PARKING 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

- Release the clips and pawls using a suitable tool and remove hoodledge finisher.
- 2. Remove washer tank. Refer to WW-54, "Removal and Installation".
- 3. Rotate parking lamp socket counterclockwise and remove.
- Remove parking lamp bulb from the bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

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

FRONT 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 the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of the lamp.

Removal

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

Installation

Installation is in the reverse order of removal.

CAUTION:

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

FRONT SIDE MARKER LAMP BULB

WARNING:

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

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. Release the clips and pawls using a suitable tool and remove hoodledge finisher.
- 2. Remove washer tank. Refer to WW-54, "Removal and Installation".
- 3. Rotate front side marker lamp socket counterclockwise and remove.
- 4. Remove front side marker lamp bulb from the bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

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

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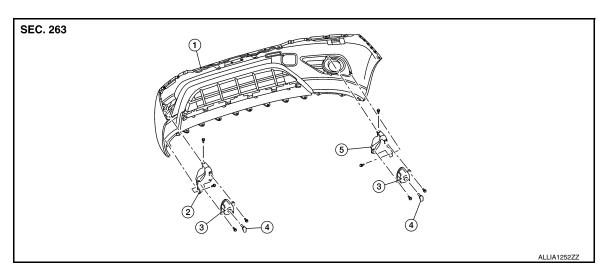
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FRONT FOG LAMP

Exploded View



- 1. Front bumper fascia
- 4. Front fog lamp bulb
- 2. Front fog lamp bracket (LH)
- 3. Front fog lamp (LH/RH)
- 5. Front fog lamp bracket (RH)
- A. Bolts

Removal and Installation

INFOID:0000000009175406

FRONT FOG LAMP

Removal

- 1. Partially remove the fender protector. Refer to <u>EXT-28</u>, "FENDER PROTECTOR: Removal and Installation".
- 2. Disconnect the harness connector(s) from the front fog lamp and daytime running lamp (if equipped).
- 3. Remove bolts and front fog lamp.

Installation

Installation in the reverse order of removal.

CAUTION:

After installation, perform fog lamp aiming adjustment. Refer to EXL-140, "Aiming Adjustment".

FRONT FOG 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.

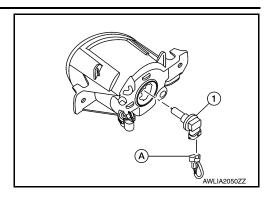
Removal

1. Partially remove the front fender protector. Refer to <u>EXT-28</u>, "FENDER PROTECTOR: Removal and Installation".

FRONT FOG LAMP

< REMOVAL AND INSTALLATION >

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



Installation

Installation is in the reverse order of removal.

DAYTIME LAMP BULB (CANADA ONLY)

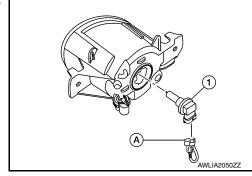
WARNING:

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. Partially remove the front fender protector. Refer to <u>EXT-28</u>, "FENDER PROTECTOR: Removal and <u>Installation"</u>.
- 2. Disconnect the harness connector (A) from the daytime lamp bulb (1).
- 3. Rotate bulb (1) counterclockwise and remove.



Installation

Installation is in the reverse order of removal.

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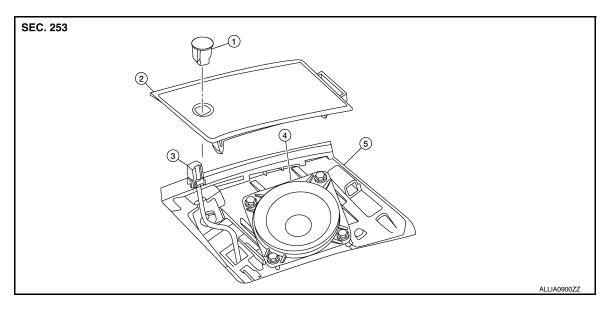
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Revision: May 2013 EXL-145 2014 Pathfinder

OPTICAL SENSOR

Exploded View INFOID:0000000009175407



- Optical sensor
- 2. Instrument panel tweeter grille (RH) 3. Optical sensor harness connec-
- Instrument panel tweeter (RH) 5. Instrument panel

Removal and Installation

INFOID:0000000009175408

REMOVAL

- Remove the instrument panel tweeter grille (RH) using a suitable tool.
- Disconnect the harness connector from the optical sensor.
- 3. Release pawls and remove the optical sensor from the instrument panel tweeter grille (RH).

INSTALLATION

LIGHTING & TURN SIGNAL SWITCH

< REMOVAL AND INSTALLATION >

Removal and Installation

LIGHTING & TURN SIGNAL SWITCH

The lighting and turn signal switch is integrated into the combination switch and is replaced as an assembly. Refer to <u>BCS-81</u>, "Removal and Installation".

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HAZARD SWITCH

< REMOVAL AND INSTALLATION >

HAZARD SWITCH

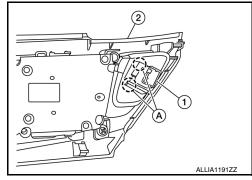
Removal and Installation

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REMOVAL

- 1. Remove cluster lid C. Refer to IP-22, "CLUSTER LID C: Removal and Installation".
- 2. Release the pawls (A) and remove the hazard switch (1) from cluster lid C (2).

():Pawl



INSTALLATION

REAR COMBINATION LAMP

Exploded View

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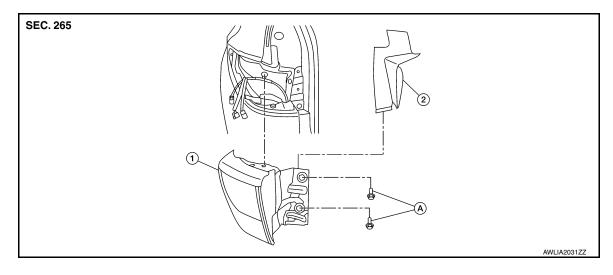
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1. Rear combination lamp

2. Rear combination lamp bolt cover A. Bolt

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Removal and Installation

REAR COMBINATION LAMP

Removal

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

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 the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of the lamp.

Removal

- Remove the rear combination lamp. Refer to EXL-149, "Removal and Installation"
- Rotate the rear turn signal lamp socket counterclockwise and remove. 2.
- Remove the bulb from rear turn signal bulb socket. 3.

Installation

Installation is in the reverse order of removal.

STOP/TAIL 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.

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REAR COMBINATION LAMP

< REMOVAL AND INSTALLATION >

• 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

- Remove the rear combination lamp. Refer to <u>EXL-149</u>, "Removal and Installation"
- Rotate the stop/tail lamp socket counterclockwise and remove.
- Remove the bulb from stop/tail lamp bulb socket.

Installation

Installation is in the reverse order of removal.

SIDE MARKER 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

- Remove the rear combination lamp. Refer to <u>EXL-149</u>, "Removal and Installation"
- 2. Rotate the side marker lamp socket counterclockwise and remove.
- Remove the bulb from side marker bulb socket.

Installation

HIGH-MOUNTED STOP LAMP

< REMOVAL AND INSTALLATION >

HIGH-MOUNTED STOP LAMP

Removal and Installation

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REMOVAL

1. Remove rear spoiler. Refer to EXT-41, "Removal and Installation".

INSTALLATION

Installation is in the reverse order of removal.

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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 <u>EXL-151</u>, "Removal and Installation"

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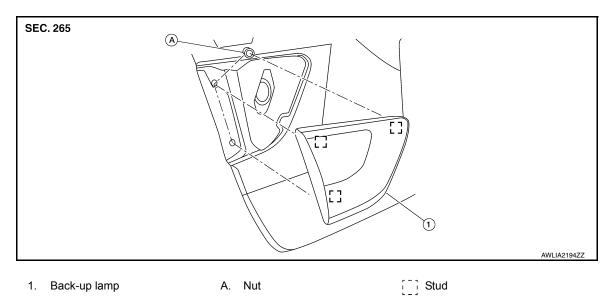
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BACK-UP LAMP

Exploded View



Removal and Installation

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BACK-UP LAMP

Removal

- Remove back door lower finisher. Refer to <u>INT-35</u>, "BACK DOOR LOWER FINISHER: Removal and <u>Installation</u>".
- 2. Disconnect the harness connector from the back-up lamp.
- 3. Remove back-up lamp nuts and remove.

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:

- 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.

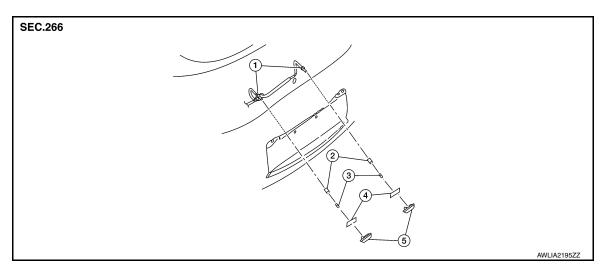
Removal

- 1. Remove back door trim access panel.
- 2. Rotate back-up lamp socket counterclockwise and remove.
- 3. Remove back-up lamp bulb from bulb socket.

Installation

LICENSE PLATE LAMP

Exploded View INFOID:0000000009175416



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

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Removal and Installation

LICENSE PLATE LAMP

Removal

- Remove back door outer finisher. Refer to EXT-43, "Removal and Installation".
- Release pawls using a suitable tool and remove license plate lamp.

Installation

Installation is in the reverse order of removal.

LICENSE PLATE 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 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.
- 1. Remove back door lower finisher. Refer to INT-35, "BACK DOOR LOWER FINISHER: Removal and Installation".
- 2. Disconnect the harness connector from the license plate lamp.

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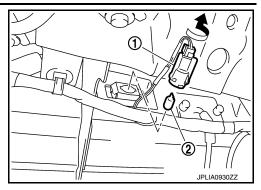
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LICENSE PLATE LAMP

< REMOVAL AND INSTALLATION >

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

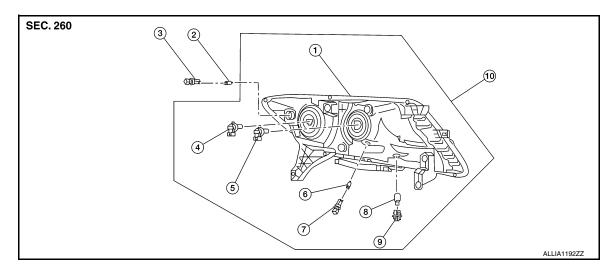


Installation

UNIT DISASSEMBLY AND ASSEMBLY

FRONT COMBINATION LAMP

Exploded View



- 1. Front combination lamp
- 4. Halogen lamp bulb (low beam)
- 7. Parking lamp bulb socket
- 10. Front combination lamp assembly
- 2. Side marker lamp bulb
- 5. Halogen lamp bulb (high beam) 6.
- 8. Parking lamp bulb
- Side marker bulb socket
- 6. Front turn signal lamp bulb
- 9. Front turn signal bulb socket

Disassembly and Assembly

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.

DISASSEMBLY

- 1. Remove the front combination lamp. Refer to <a>EXL-141, "Removal and Installation".
- 2. Rotate the halogen lamp bulb (low beam) counterclockwise and remove.
- 3. Rotate the halogen lamp bulb (high beam) counterclockwise and remove.
- 4. Rotate parking lamp socket counterclockwise and remove.
- 5. Remove parking lamp bulb from parking bulb socket.
- 6. Rotate front turn signal lamp socket counterclockwise and remove.
- 7. Remove front turn signal lamp bulb from front turn signal bulb socket.
- 8. Rotate side marker lamp socket counterclockwise and remove.
- 9. Remove side marker lamp bulb from side marker bulb socket.

ASSEMBLY

Assembly is in the reverse order of disassembly.

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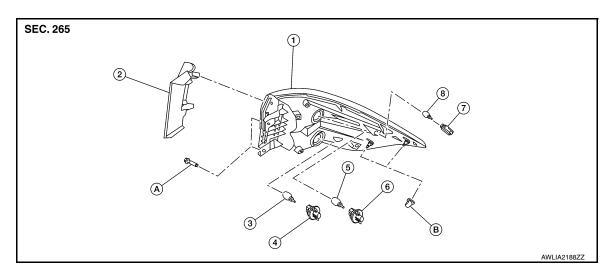
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Revision: May 2013 EXL-155 2014 Pathfinder

REAR COMBINATION LAMP

Exploded View



- 1. Rear combination lamp
- 4. Rear turn signal bulb socket
- 7. Side marker bulb socket
- B. Locator pin

- 2. Rear combination lamp bolt cover 3.
- 5. Stop/Tail lamp bulb
- 8. Side marker lamp bulb
- 3. Rear turn signal lamp bulb
- 6. Stop/Tail bulb socket
- A. Bolt

Disassembly and Assembly

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WARNING:

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

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

DISASSEMBLY

- 1. Remove rear combination lamp. Refer to EXL-149, "Removal and Installation"
- Rotate rear turn signal lamp bulb socket counterclockwise and remove.
- Remove rear turn signal bulb from bulb socket.
- 4. Rotate stop/tail lamp bulb socket counterclockwise and remove.
- 5. Remove stop/tail bulb from bulb socket.
- Rotate side marker lamp bulb socket counterclockwise and remove.
- 7. Remove side marker bulb from bulb socket.

ASSEMBLY

Assembly is in the reverse order of disassembly.

SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

	Item	Wattage (W) *
	High beam	60
	Low beam	55
Front combination lamp	Front turn signal lamp	21
	Parking lamp	5
	Side marker lamp	5
Front fog lamp	Fog lamp (if equipped)	55
Daytime running lamp built-in fog lamp (Canada only)		19
Rear combination lamp	Stop/Tail lamp	21/5
	Turn signal lamp	21
	Side marker lamp	5
Back-up lamp		12
License plate lamp		5
High-mounted stop lamp		_

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

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