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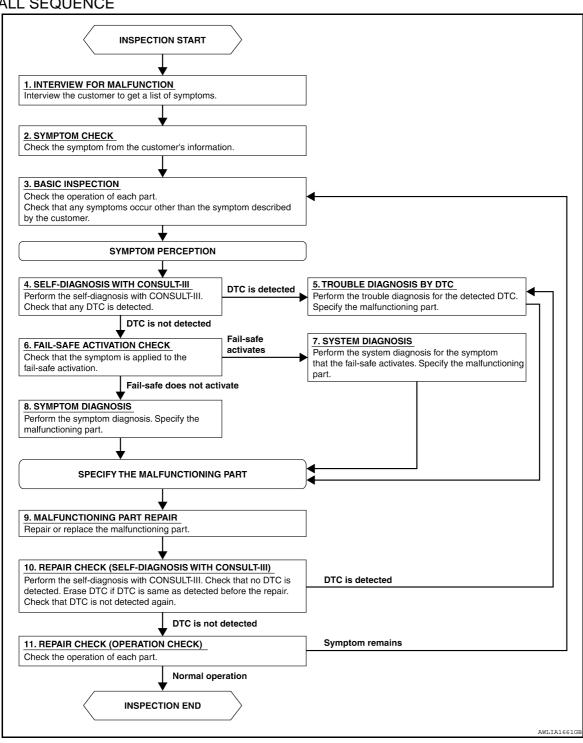
2010 Altima

## **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

#### **OVERALL SEQUENCE**



#### **DETAILED FLOW**

## 1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

#### **DIAGNOSIS AND REPAIR WORKFLOW**

### < BASIC INSPECTION > >> GO TO 2 2.SYMPTOM CHECK Α Verify the symptom from the customer's information. В >> GO TO 3 3.BASIC INSPECTION Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview. D >> GO TO 4 4. SELF-DIAGNOSIS WITH CONSULT-III Perform the self diagnosis with CONSULT-III. Check that any DTC is detected. Is any DTC detected? YES >> GO TO 5 NO >> GO TO 6 TROUBLE DIAGNOSIS BY DTC Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part. >> GO TO 9 6. FAIL-SAFE ACTIVATION CHECK Н Determine if the customer's concern is related to fail-safe activation. Does the fail-safe activate? >> GO TO 7 YES NO >> GO TO 8 7. SYSTEM DIAGNOSIS J Perform the system diagnosis for the system in which the fail-safe activates. Specify the malfunctioning part. K >> GO TO 9 8. SYMPTOM DIAGNOSIS **EXL** Perform the symptom diagnosis. Specify the malfunctioning part. M >> GO TO 9 9. MALFUNCTION PART REPAIR Repair or replace the malfunctioning part. Ν >> GO TO 10 10.REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT-III) Perform the self diagnosis with CONSULT-III. Verfiy that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again. Р Is any DTC detected? YES >> GO TO 5 NO >> GO TO 11 11. REPAIR CHECK (OPERATION CHECK) Check the operation of each part.

Does it operate normally?

## **DIAGNOSIS AND REPAIR WORKFLOW**

### < BASIC INSPECTION >

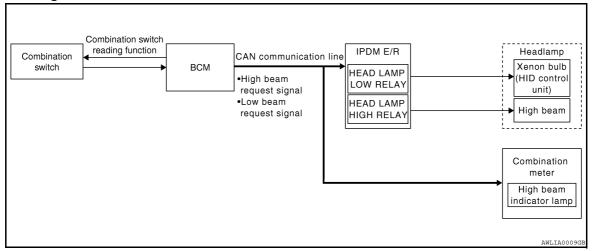
>> Inspection End. >> GO TO 3 YES

NO

## **FUNCTION DIAGNOSIS**

## **HEADLAMP (XENON TYPE)**

System Diagram



## System Description

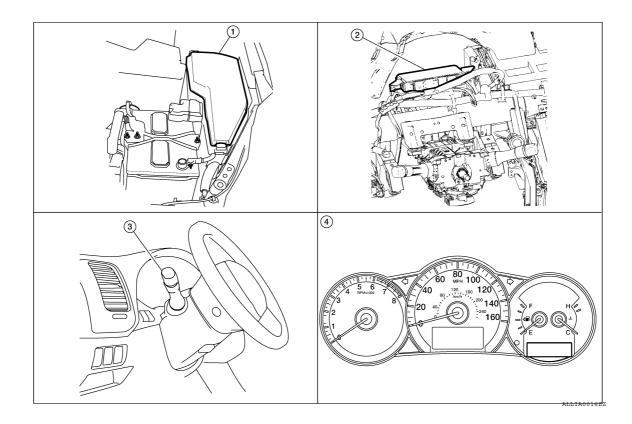
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Control of the headlamp system is dependent upon the position of the lighting switch (combination switch). When the lighting switch is placed in the 2nd position, the BCM (body control module) receives input requesting the headlamps and park lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) across the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the headlamp high and headlamp low relay coils. When energized, these relays direct power to the respective headlamps, which then illuminate.

## Component Parts Location

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## **HEADLAMP (XENON TYPE)**

#### < FUNCTION DIAGNOSIS >

- 1. IPDM E/R E17, E18, E200
- BCM M16, M17, M18, M19 (view with 3. Combination Switch M28 instrument panel removed)
- Combination Meter M24

### Component Description

INFOID:0000000005433862

#### XENON HEADLAMP

A Xenon type headlamp is adapted to the low beam headlamps. Xenon bulbs do not use a filament. Instead, they produce light when a high voltage current is passed between two tungsten electrodes through a mixture of xenon (an inert gas) and certain other metal halides. In addition to added lighting power, electronic control of the power supply gives the headlamps stable quality and tone color.

Following are some of the many advantages of the xenon type headlamp.

- The light produced by the headlamps is a white color comparable to sunlight that is easy on the eyes.
- Light output is nearly double that of halogen headlamps, affording increased area of illumination.
- The light features a high relative spectral distribution at wavelengths to which the human eye is most sensitive. This means that even in the rain, more light is reflected back from the road surface toward the vehicle, for added visibility.
- Power consumption is approximately 25 percent less than halogen headlamps, reducing battery load.

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

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

#### EXTERIOR LAMP BATTERY SAVER CONTROL

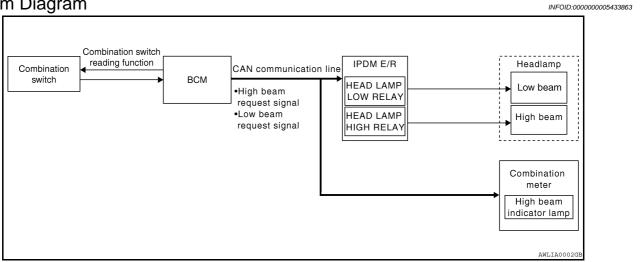
With the lighting switch (combination switch) in the 2nd position and the ignition switch is turned from ON or ACC to OFF, the battery saver feature is activated.

Under this condition, the headlamps remain illuminated for 5 minutes unless the lighting switch position is changed. If the lighting switch position is changed, then the headlamps are turned off.

This setting can be changed by CONSULT-III. Refer to EXL-27, "HEADLAMP: CONSULT-III Function".

## HEADLAMP (HALOGEN TYPE)

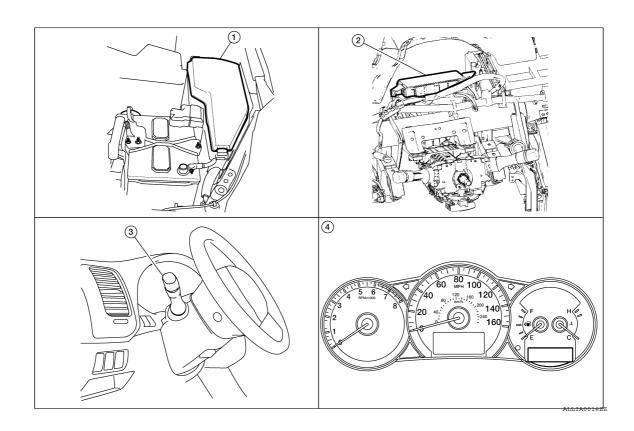
## System Diagram



## System Description

Control of the headlamp system operation is dependent upon the position of the lighting switch (combination switch). When the lighting switch is placed in the 2nd position, the BCM (body control module) receives input requesting the headlamps and park lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) across the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the headlamp high and headlamp low relay coils. When energized, these relays direct power to the respective headlamps, which then illuminate.

## Component Parts Location



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## **HEADLAMP (HALOGEN TYPE)**

#### < FUNCTION DIAGNOSIS >

- 1. IPDM E/R E17, E18, E200
- BCM M16, M17, M18, M19 (view with 3. Combination switch M28 instrument panel removed)
- 4. Combination meter M24

### Component Description

INFOID:000000005433866

#### LOW BEAM OPERATION

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

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

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

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

#### EXTERIOR LAMP BATTERY SAVER CONTROL

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

Under this condition, the headlamps remain illuminated for 5 minutes unless the lighting switch position is changed. If the lighting switch position is changed, then the headlamps are turned off.

This setting can be changed by CONSULT-III. Refer to EXL-27, "HEADLAMP: CONSULT-III Function".

#### **DAYTIME RUNNING LIGHT SYSTEM**

#### < FUNCTION DIAGNOSIS >

### DAYTIME RUNNING LIGHT SYSTEM

signal

## System Diagram

INFOID:0000000005433867 Combination switch reading function Headlamp high Combination CAN communication line IPDM E/R LH Daytime light request signal Headlamp high RH Daytime CAN communication line **ECM** light всм Engine status signal relay Parking brake switch Combination meter Parking brake switch

## System Description

INFOID:0000000005433868

AWI-TA0010G

The headlamp system for Canada vehicles is equipped with a daytime light control unit that activates the high beam headlamps at approximately half illumination whenever the engine is running. If the parking brake is applied before the engine is started the daytime lights will not be illuminated. The daytime lights will illuminate once the parking brake is released. Thereafter, the daytime lights will continue to operate when the parking brake is applied.

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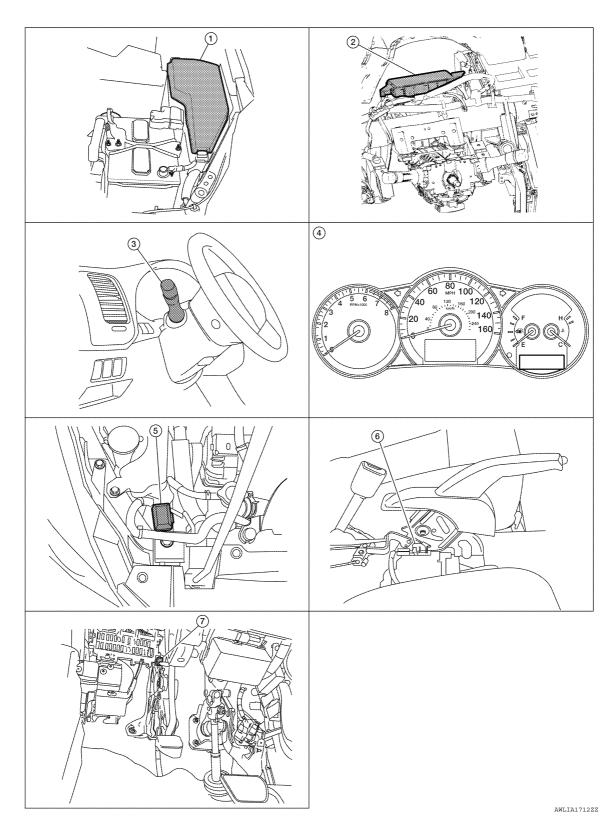
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## **Component Parts Location**

INFOID:0000000005433869



1. IPDM E/R E17, E18, E200, E201

BCM M16,M17, M18, M19 (view with 3. Combination switch M28 instrument panel removed)

#### DAYTIME RUNNING LIGHT SYSTEM

#### < FUNCTION DIAGNOSIS >

- Combination meter M24
- Daytime light relay E228
- 6. Parking brake switch E35 (sedan with CVT) M73 (coupe or sedan with M/T)

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Parking brake switch E35 (sedan with

## Component Description

INFOID:0000000005433870

After starting the engine with the parking brake released and the lighting switch in the OFF or 1ST position, the headlamp high beam automatically turns on. With the lighting switch in the 2nd position or with autolamps ON, the headlamps function the same as conventional light systems.

#### **OPERATION**

The BCM monitors inputs from the parking brake switch and the combination switch to determine when to activate 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 ground side of the RH high beam lamp. Power flows backward through the RH high beam lamp to the IPDM E/R, through the high beam fuses, through the LH high beam lamp circuit to the LH high beam lamp and on to ground. The high beam lamps are wired in series which causes them to illuminate at a reduced intensity.

Engi	ne			V	/ith er	ngine	stopp	ed					V	/ith e	ngine	runni	ng		
Lighting switch			OFF			1ST			2ND			OFF			1ST			2ND	
Lighting Switch		Hi	Lo	Р	Hi	Lo	Р	Hi	Lo	Р	Hi	Lo	Р	Hi	Lo	Р	Hi	Lo	Р
Headlamp	High beam	_	_	-	_	_	×	×	-	×	•*	•*	×	•*	•*	×	×	_	×
пеацатр	Low beam	_	_	-	_	_	×	×	×	×	_	ı	×	-	ı	×	×	×	×
Tail lamp		_	_	-	×	×	×	×	×	×	_	ı	_	×	×	×	×	×	×
License and instru	ment illumina-	_	_	-	×	×	×	×	×	×	_	1	-	×	×	×	×	×	×

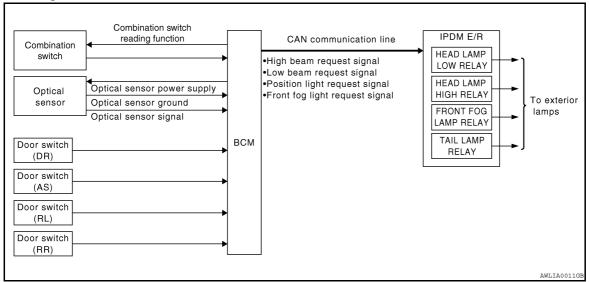
- Hi: "HIGH BEAM" position
- · Lo: "LOW BEAM" position
- P: "FLASH TO PASS" position
- x: Lamp "ON"
- -: Lamp "OFF"
- •: Lamp dims. (Added functions)
- \*: When starting the engine with the parking brake released, the daytime lights will operate. When starting the engine with the parking brake applied, the daytime lights will not operate.

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### **AUTO LIGHT SYSTEM**

### System Diagram

INFOID:0000000005433871



## System Description

INFOID:0000000005433872

- 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 <a href="EXL-27">EXL-27</a>, "HEADLAMP: CONSULT-III Function".

## **Component Parts Location**

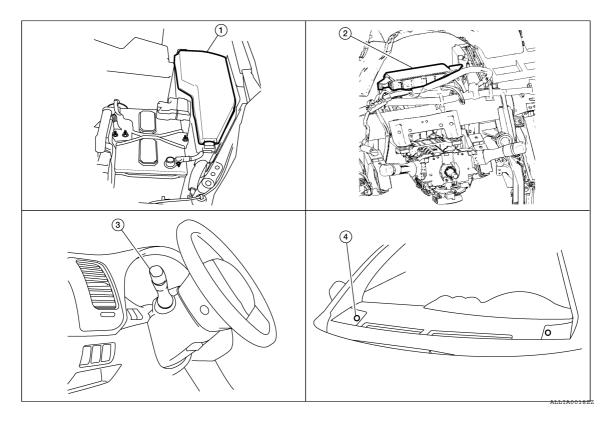
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IPDM E/R E17, E18, E200

**BCM** M16, M17, M18, M19 (Coupe) M16, M17, M18, M19, M21 (Sedan) (view with instrument panel removed) Combination switch M28

Optical sensor M66

## Component Description

INFOID:0000000005433874

#### **AUTO LIGHT OPERATION**

Applicable lamps

- Low beam headlamp
- Parking, license plate and tail lamps
- High beam headlamp (with the lighting switch in HIGH BEAM position)
- Front fog lamp (with the lighting switch in front fog lamp ON position)

When the lighting switch is in AUTO position with the ignition switch in ON position, BCM detects the AUTO LIGHT (ON) by BCM combination switch reading function. BCM turns automatically ON/OFF the applicable lamps according to ambient brightness.

NOTE:

Timing for when lamps turn ON/OFF can be changed by the function setting of CONSULT-III. Refer to EXL-27. "HEADLAMP: CONSULT-III Function".

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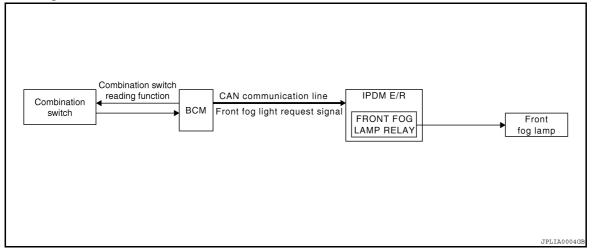
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**EXL-15** Revision: September 2009 2010 Altima

## FRONT FOG LAMP

System Diagram

INFOID:0000000005433875



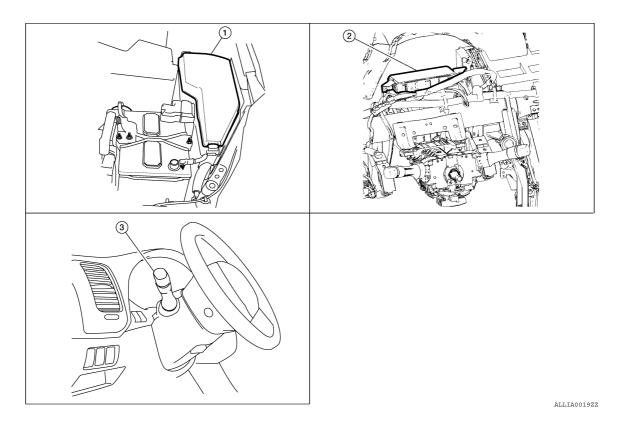
## System Description

INFOID:0000000005433876

- BCM (Body Control Module) controls front fog lamp operation.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates front fog lamp according to CAN communication signals from BCM.
- Combination meter operates front fog lamp indicator according to inputs via the CAN communication lines.

## Component Parts Location

INFOID:0000000005433877



IPDM E/R E17, E18, E200

BCM M16, M17, M18, M19 (view with 3. Combination switch M28 instrument panel removed)

#### FRONT FOG LAMP

#### < FUNCTION DIAGNOSIS >

## Component Description

INFOID:0000000005433878

#### FRONT FOG LAMP OPERATION

When the lighting switch is in front fog lamp ON position and also in 1ST or 2ND position or AUTO position (headlamp is ON), the BCM detects FR FOG ON and the HEAD LAMP1, 2 ON or the AUTO LIGHT ON. The BCM sends a front fog lamp request ON signal through 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.

The combination meter also receives a front fog lamp request ON signal through the CAN communication lines at which time it turns the front fog indicator ON.

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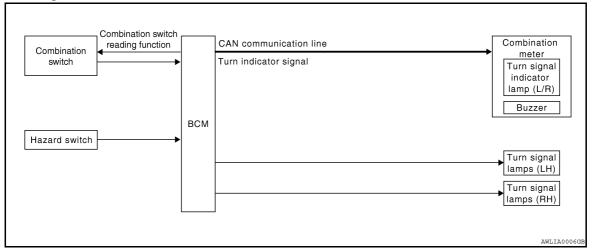
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## TURN SIGNAL AND HAZARD WARNING LAMPS

## System Diagram

INFOID:0000000005433879



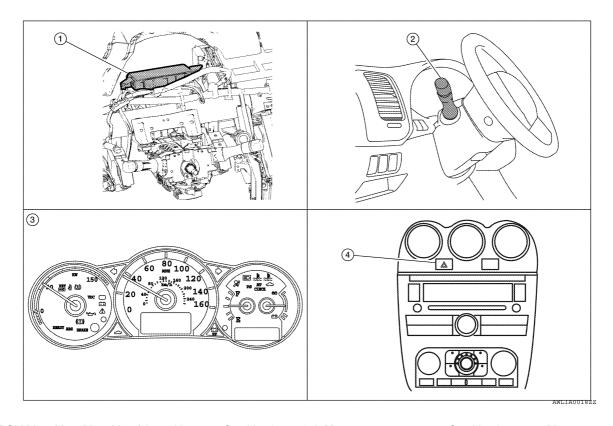
## System Description

INFOID:0000000005433880

- BCM (Body Control Module) controls turn signal lamp (RH and LH) and hazard warning lamp operation.
- Combination meter operates turn (RH and LH) indicator according to CAN communication signals from BCM.

## **Component Parts Location**

INFOID:0000000005433881



- BCM M16, M17, M18, M19 (view with 2. Combination switch M28 instrument panel removed)
- 4. Hazard switch M54

3. Combination meter M24

#### TURN SIGNAL AND HAZARD WARNING LAMPS

#### < FUNCTION DIAGNOSIS >

## Component Description

INFOID:0000000005433882

#### **TURN SIGNAL OPERATION**

When the turn signal switch is in LH or RH position with the ignition switch in ON position, the BCM detects the TURN RH or TURN LH ON request. The BCM outputs the flasher output signal to the respective turn signal lamp. The BCM sends a turn indicator signal ON request through 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 ON position, the BCM detects the hazard switch signal ON. The BCM outputs the flasher output signal (right and left). The BCM sends a hazard indicator signal ON request through the CAN communication lines to the combination meter. The combination meter then activates the hazard indicator and audible buzzer.

#### REMOTE KEYLESS ENTRY OPERATION

The remote keyless entry receiver transmits Intelligent Key signal to BCM, then BCM controls hazard lamps. Refer to <a href="SEC-25">SEC-25</a>, "System Description".

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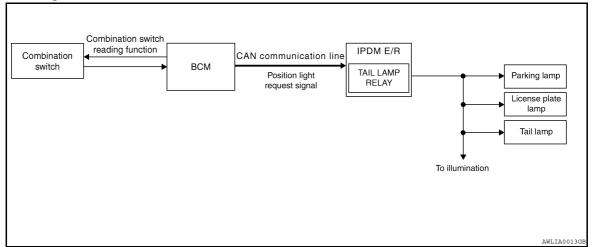
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## PARKING, LICENSE PLATE AND TAIL LAMPS

## System Diagram

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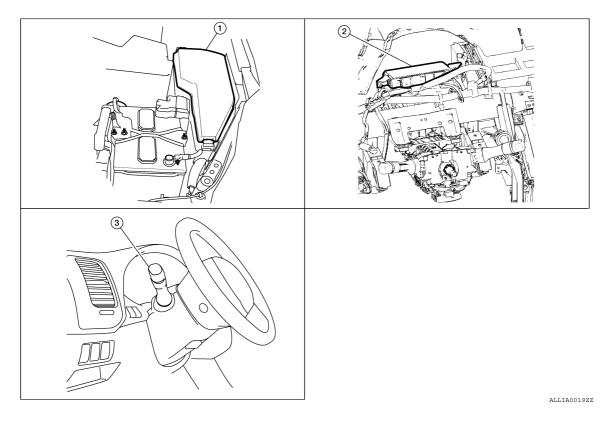
## System Description

INFOID:0000000005433884

- BCM (Body Control Module) controls parking, license plate and tail lamps operation.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates parking, license plate and tail lamps according to CAN communication signals from BCM.

## **Component Parts Location**

INFOID:0000000005433885



IPDM E/R E17, E18, E201

BCM M16, M17, M18, M19 (view with 3. Combination switch M28 instrument panel removed)

#### PARKING, LICENSE PLATE AND TAIL LAMPS

#### < FUNCTION DIAGNOSIS >

## Component Description

INFOID:0000000005433886

#### PARKING, LICENSE PLATE AND TAIL LAMPS OPERATION

When the lighting switch is in 1ST position, BCM detects the LIGHTING SWITCH 1ST POSITION ON. The BCM sends a parking light ON request through 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.

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#### EXTERIOR LAMP BATTERY SAVER CONTROL

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

Under this condition, the headlamps remain illuminated for 5 minutes unless the lighting switch position is changed. If the lighting switch position is changed, then the headlamps are turned off.

This setting can be changed by CONSULT-III. Refer to EXL-30, "BATTERY SAVER: CONSULT-III Function".

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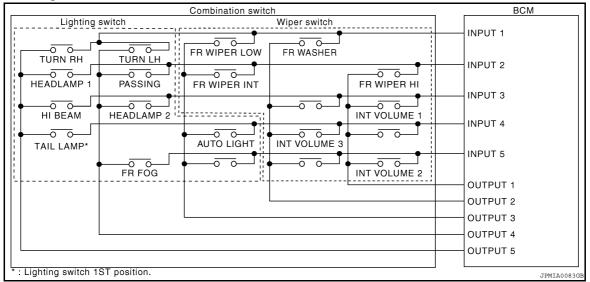
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## System Diagram

INFOID:0000000005781232



## System Description

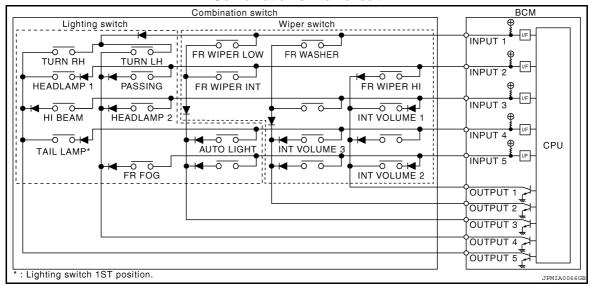
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#### **OUTLINE**

- BCM reads the status of the combination switch (light, turn signal, wiper and washer) and recognizes the status of each switch.
- BCM is a combination of 5 output terminals (OUTPUT 1 5) and 5 input terminals (INPUT 1 5). It reads a maximum of 20 switch status.

#### COMBINATION SWITCH MATRIX

#### Combination switch circuit



#### Combination switch INPUT-OUTPUT system list

System	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 5
INPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
INPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1
INPUT 3	INT VOLUME 1	_	_	HEADLAMP 2	HI BEAM

#### < FUNCTION DIAGNOSIS >

System	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 5
INPUT 4	_	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
INPUT 5	INT VOLUME 2	_	_	FR FOG	_

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**EXL** 

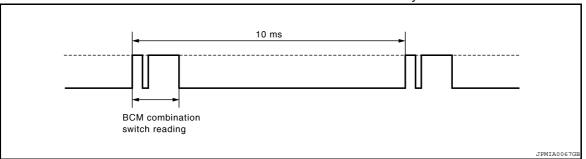
#### NOTE:

Headlamp has a dual system switch.

#### COMBINATION SWITCH READING FUNCTION

#### Description

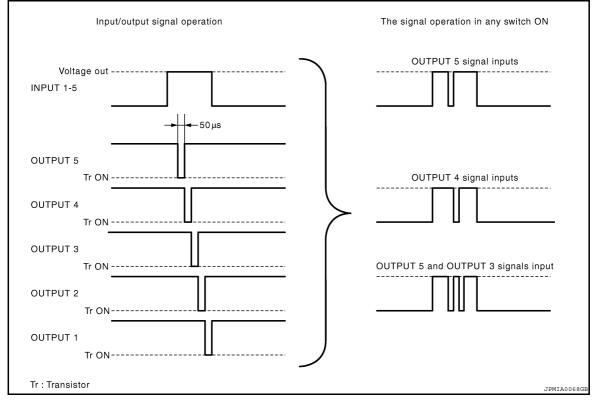
BCM reads the status of the combination switch at 10ms interval normally.



#### NOTE

BCM reads the status of the combination switch at 60ms interval when BCM is controlled at low power consumption mode.

- BCM operates as follows and judges the status of the combination switch.
- INPUT 1 5 outputs the voltage waveforms of 5 systems simultaneously.
- It operates the transistor on OUTPUT side in the following order: OUTPUT  $5 \rightarrow 4 \rightarrow 3 \rightarrow 2 \rightarrow 1$ .
- The voltage waveform of INPUT corresponding to the formed circuit changes according to the operation of the transistor on OUTPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.



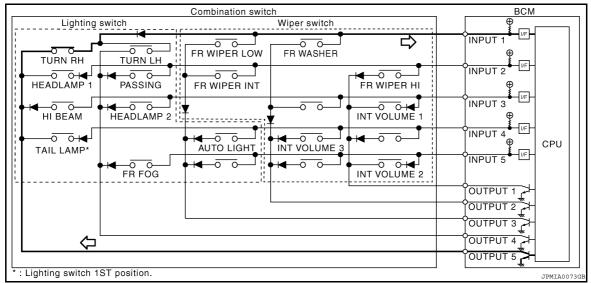
#### Operation Example

In the following operation example, the combination of the status signals of the combination switch is replaced as follows: INPUT 1 - 5 to "1 - 5" and OUTPUT 1 - 5 to "A - E".

#### < FUNCTION DIAGNOSIS >

Example 1: When a switch (TURN RH switch) is turned ON

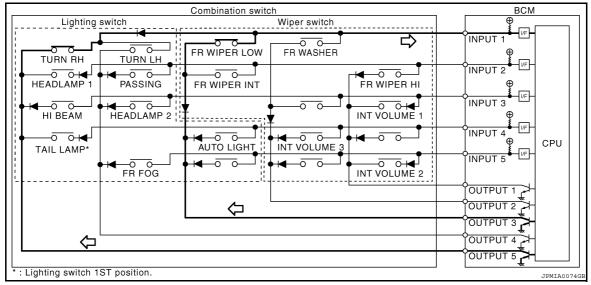
The circuit between INPUT 1 and OUTPUT 5 is formed when the TURN RH switch is turned ON.



- BCM detects the combination switch status signal "1E" when the signal of OUTPUT 5 is input to INPUT 1.
- BCM judges that the TURN RH switch is ON when the signal "1E" is detected.
- Example 2: When some switches (TURN RH switch, FR WIPER LOW switch) are turned ON

Example 2: When some switches (turn RH switch, front wiper LO switch) are turned ON

 The circuits between INPUT 1 and OUTPUT 5 and between INPUT 1 and OUTPUT 3 are formed when the TURN RH switch and FR WIPER LOW switch are turned ON.



- BCM detects the combination switch status signal "1CE" when the signals of OUTPUT 3 and OUTPUT 5 are input to INPUT 1.
- BCM judges that the TURN RH switch and FR WIPER LOW switch are ON when the signal "1CE" is detected.

WIPER INTERMITTENT DIAL POSITION SETTING (FRONT WIPER INTERMITTENT OPERATION) BCM judges the wiper intermittent dial 1 - 7 by the status of INT VOLUME 1, 2, and 3 switches.

## < FUNCTION DIAGNOSIS >

Wiper intermittent dial posi-	Intermittent oper-	INT	tatus	
tion	ation delay inter- val	INT VOLUME 1 switch	INT VOLUME 2 switch	INT VOLUME 3 switch
1	Short	ON	ON	ON
2	1	ON	ON	OFF
3		ON	OFF	OFF
4		OFF	OFF	OFF
5		OFF	OFF	ON
6	$\downarrow$	OFF	ON	ON
7	Long	OFF	ON	OFF

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#### < FUNCTION DIAGNOSIS >

## **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

**COMMON ITEM: Diagnosis Description** 

INFOID:000000005781235

#### **BCM CONSULT-III FUNCTION**

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF DIAGNOSTIC RESULT	Displays the diagnosis results judged by BCM.
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	<ul> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>

#### SYSTEM APPLICATION

BCM can perform the following functions for each system.

#### NOTE:

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

System	Sub system selection item		Diagnosis mode					
System	Sub system selection item	WORK SUPPORT	DATA MONITOR	ACTIVE TEST				
Door lock	DOOR LOCK	×	×	×				
Rear window defogger	REAR DEFOGGER		×	×				
Warning chime	BUZZER		×	×				
Interior room lamp timer	INT LAMP	×	×	×				
Remote keyless entry system1	MULTI REMOTE ENT	×	×	×				
Exterior lamp	HEAD LAMP	×	×	×				
Wiper and washer	WIPER	×	×	×				
Turn signal and hazard warning lamps	FLASHER	×	×	×				
Air conditioner	AIR CONDITONER		×					
Intelligent Key system2	INTELLIGENT KEY	×	×	×				
Combination switch	COMB SW		×					
BCM	BCM	×						
Immobilizer	IMMU		×	×				
Interior room lamp battery saver	BATTERY SAVER	×	×	×				
Trunk open	TRUNK		×	×				
Vehicle security system	THEFT ALM	×	×	×				
RAP system	RETAINED PWR		×					
Signal buffer system	SIGNAL BUFFER		×	×				
TPMS	AIR PRESSURE MONITOR	×	×	×				

<sup>1 :</sup> With remote keyless entry system

COMMON ITEM: CONSULT-III Function

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**ECU IDENTIFICATION** 

<sup>2:</sup> With intelligent Key system

### < FUNCTION DIAGNOSIS >

Displays the BCM part No.

**SELF-DIAG RESULT** 

Refer to EXL-79, "DTC Index".

**HEADLAMP** 

**HEADLAMP: CONSULT-III Function** 

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#### **WORK SUPPORT**

Service item	Setting item		Setting				
	MODE1 <sup>1</sup>	Normal					
CUSTOM A/LIGHT	MODE2	More sensitive set	ting than normal setting (Turns ON earlier than normal operation.)				
SETTING <sup>2</sup>	MODE3	More sensitive set	ting than MODE 2 (Turns ON earlier than MODE 2.)				
	MODE4	Less sensitive set	ting than normal setting (Turns ON later than normal operation.)				
BATTERY SAVER SET	ON <sup>1</sup>	With the exterior la	Vith the exterior lamp battery saver function				
BATTERT SAVER SET	OFF	Without the exterior lamp battery saver function					
	MODE1 <sup>1</sup>	45 sec.					
	MODE2	Without the function					
	MODE3	30 sec.					
ILL DELAY SET <sup>2</sup>	MODE4	60 sec.	Sets delay timer function timer operation time (All doors closed)				
	MODE5	90 sec.	(\frac{111 doors diosed)}{}				
	MODE6	120 sec.					
	MODE7	150 sec.					
	MODE8	180 sec.					

<sup>1:</sup> Initial setting

#### **DATA MONITOR**

Monitor item [Unit]	Description
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch
ENGINE STATE [STOP/STALL/CRANK/RUN]	The engine status received from ECM with CAN communication
VEH SPEED 1 [mph]	The value of the vehicle speed received from combination meter with CAN communication
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot

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<sup>2:</sup> With auto light system

## < FUNCTION DIAGNOSIS >

Monitor item [Unit]	Description	
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]	Each switch status that BCM judges from the combination switch reading function	
HEAD LAMP SW 2 [ON/OFF]		
PASSING SW [ON/OFF]		
AUTO LIGHT SW <sup>1</sup> [ON/OFF]		
FR FOG SW [ON/OFF]		
DOOR SW-DR [ON/OFF]	The switch status input from front door switch LH	
DOOR SW-AS [ON/OFF]	The switch status input from front door switch RH	
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH	
DOOR SW-RL [ON/OFF]	The switch status input from rear door switch LH	
OPTICAL SENSOR [V] <sup>1</sup>	The value of exterior brightness voltage input from the optical sensor	

<sup>1:</sup> With auto light system.

## **ACTIVE TEST**

Test item	Operation	Description
TAIL LAMP	ON	Transmits the Position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON.
	OFF	Stops the tail lamp request signal transmission.
	НІ	Transmits the high beam request signal with CAN communication to turn the headlamp (HI)
HEAD LAMP	LOW	Transmits the low beam request signal with CAN communication to turn the headlamp (LOW).
	OFF	Stops the high & low beam request signal transmission.
FR FOG LAMP	ON	Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON.
	OFF	Stops the front fog lights request signal transmission.
ILL DIM SIGNAL	ON	Transmits the delay timer function timer operation time signal to IPDM E/R with CAN communication to turn the headlamps ON (All doors closed).
	OFF	Stops the delay timer function timer signal transmission.

## **FLASHER**

### < FUNCTION DIAGNOSIS >

## FLASHER: CONSULT-III Function

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#### Work support

Service item	Setting item	Setting	
	LOCK ONLY	Activated when locking.	
HAZARD ANSWER	UNLOCK ONLY	Activated when unlocking.	Sets the hazard warning lamp answer back activation when the door is lock/unlock with the request switch or
BACK	LOCK/UN- LOCK*	Activated when locking/ unlocking	the key fob.
	OFF	Not activated	

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

#### Data monitor

Monitor item [Unit]	Description	
REQ SW-DR [ON/OFF]	The switch status input from request switch (driver side)	
REQ SW-AS [ON/OFF]	The switch status input from front request switch (passenger side)	
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch	
TURN SIGNAL R [ON/OFF]	Each switch condition that BCM judges from the combination switch reading function  The switch status input from the hazard warning switch  The lock signal status received from the keyless receiver  The unlock signal status received from the keyless receiver	
TURN SIGNAL L [ON/OFF]		
HAZARD SW [ON/OFF]		
RKE-LOCK [ON/OFF]		
RKE-UNLOCK [ON/OFF]		
RKE-PANIC [ON/OFF]	The panic alarm signal status received from the keyless receiver	

#### Active test

Test item	Operation	Description
	OFF	Turns turn signal lamps (right and left) OFF.
FLASHER	LH	Blinks left turn signal lamp.
	RH	Blinks right turn signal lamp.

## **COMB SW**

## **COMB SW: CONSULT-III Function**

INFOID:0000000005781239

#### **DATA MONITOR**

Monitor item [UNIT]	Description
FR WIPER HI [OFF/ON]	Displays the status of the FR WIPER HI switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER LOW [OFF/ON]	Displays the status of the FR WIPER LOW switch in combination switch judged by BCM with the combination switch reading function.

Revision: September 2009 EXL-29 2010 Altima

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### < FUNCTION DIAGNOSIS >

Monitor item [UNIT]	Description
FR WASHER SW [OFF/ON]	Displays the status of the FR WASHER switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER INT [OFF/ON]	Displays the status of the FR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER STOP [OFF/ON]	Displays the status of the front wiper stop position signal received from IPDM E/R via CAN communication.
INT VOLUME [1 - 7]	Displays the status of wiper intermittent dial position judged by BCM with the combination switch reading function
TURN SIGNAL R [OFF/ON]	Displays the status of the TURN RH switch in combination switch judged by BCM with the combination switch reading function.
TURN SIGNAL L [OFF/ON]	Displays the status of the TURN LH switch in combination switch judged by BCM with the combination switch reading function.
TAIL LAMP SW [OFF/ON]	Displays the status of the TAIL LAMP switch in combination switch judged by BCM with the combination switch reading function.
HI BEAM SW [OFF/ON]	Displays the status of the HI BEAM switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 1 [OFF/ON]	Displays the status of the HEADLAMP 1 switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 2 [OFF/ON]	Displays the status of the HEADLAMP 2 switch in combination switch judged by BCM with the combination switch reading function.
PASSING SW [OFF/ON]	Displays the status of the PASSING switch in combination switch judged by BCM with the combination switch reading function.
AUTO LIGHT SW* [OFF/ON]	Displays the status of the AUTO LIGHT switch in combination switch judged by BCM with the combination switch reading function.
FR FOG SW [OFF/ON]	Displays the status of the FR FOG switch in combination switch judged by BCM with the combination switch reading function.

<sup>\*:</sup> With auto light system

### **BATTERY SAVER**

## **BATTERY SAVER: CONSULT-III Function**

INFOID:0000000005781240

#### **WORK SUPPORT**

Service item	Setting item	Setting		
ROOM LAMP BAT SAV SET	ON*	With the in	With the interior room lamp battery saver function	
ROOM LAWF BAT SAV SET	OFF	Without th	Without the interior room lamp battery saver function	
ROOM LAMP TIMER SET	MODE 1*	30 min.	Sets the interior room lamp battery saver timer operating	
ROOM LAWF TIMER SET	MODE 2	60 min.	time.	
BATTERY SAVER SET	ON*	With the exterior lamp battery saver function		
	OFF	Without th	ne exterior lamp battery saver function	

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

#### **DATA MONITOR**

Monitor item [Unit]	Description
REQ SW-DR [ON/OFF]	The switch status input from request switch (driver side)
REQ SW-AS [ON/OFF]	The switch status input from front request switch (passenger side)
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch

## < FUNCTION DIAGNOSIS >

Monitor item [Unit]	Description	
ACC RLY-F/B [ON/OFF]	Indicates [ON/OFF] condition of accessory relay.	
UNLK SEN-DR [ON/OFF]	Indicates [ON/OFF] condition of driver door UNLOCK status.	
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot	
DOOR SW-DR [ON/OFF]	The switch status input from front door switch LH	
DOOR SW-AS [ON/OFF]	The switch status input from front door switch RH	
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH	
DOOR SW-RL [ON/OFF]	The switch status input from rear door switch LH	
CDL LOCK SW [ON/OFF]	Lock switch status received from central door lock switch by power window switch serial link	
CDL UNLOCK SW [ON/OFF]	Unlock switch status received from central door lock switch by power window switch serial link	
KEY CYL LK-SW [ON/OFF]	Lock switch status received from key cylinder switch by power window switch serial link	
KEY CYL UN-SW [ON/OFF]	Unlock switch status received from key cylinder switch by power window switch serial link	
TRNK/HAT MNTR [ON/OFF]	The switch status input from trunk room lamp switch	
RKE-LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver	
RKE-UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver	

### **ACTIVE TEST**

Test item	Operation	Description
BATTERY SAVER	OFF	Cuts the interior room lamp power supply to turn interior room lamp OFF.
DATTERT SAVER	ON	Outputs the interior room lamp power supply to turn interior room lamp ON.*

<sup>\*:</sup> Each lamp switch is in ON position.

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#### < FUNCTION DIAGNOSIS >

## DIAGNOSIS SYSTEM (IPDM E/R)

## **Diagnosis Description**

#### INFOID:0000000005781241

#### **AUTO ACTIVE TEST**

#### Description

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

- Oil pressure warning lamp
- Front wiper (LO, HI)
- Parking lamps
- · License plate lamps
- Tail lamps
- Front fog lamps (if equipped)
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fans

#### Operation Procedure

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

#### NOTE:

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

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

#### **CAUTION:**

#### Close front door RH.

- 4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
- 5. The oil pressure warning lamp starts blinking when the auto active test starts.
- 6. After a series of the following operations is repeated 3 times, auto active test is completed.

#### NOTE:

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

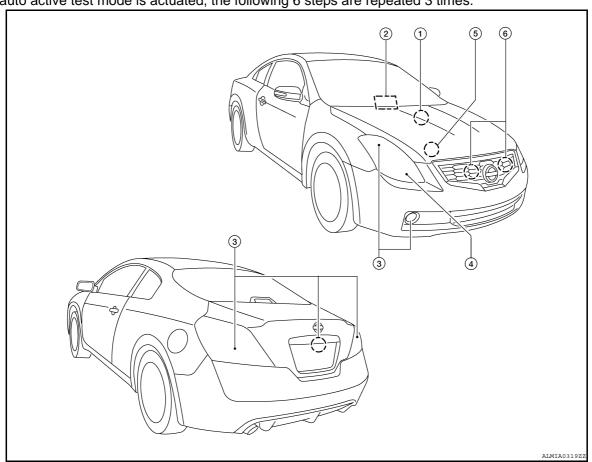
#### **CAUTION:**

- If auto active test mode cannot be actuated, check door switch system. Refer to <u>DLK-67</u>, "Component Function Check".
- · Do not start the engine.

Inspection in Auto Active Test Mode

### < FUNCTION DIAGNOSIS >

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



Operation sequence	Inspection Location	Operation
1	Oil pressure warning lamp	Blinks continuously during operation of auto active test
2	Front wiper	LO for 5 seconds → HI for 5 seconds
3	Parking lamps     License plate lamps     Tail lamps     Front fog lamps (if equipped)	10 seconds
4	Headlamps	LO ⇔ HI 5 times
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times
6*	Cooling fans	MID for 5 seconds $\rightarrow$ HI for 5 seconds

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

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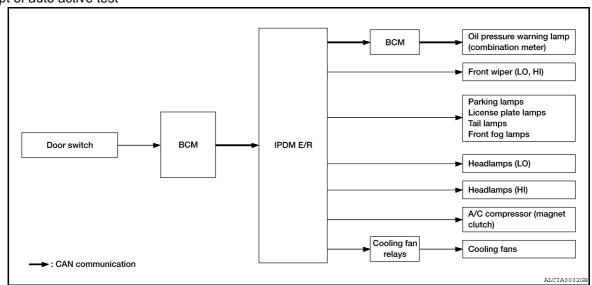
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#### < FUNCTION DIAGNOSIS >

Concept of auto active test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

Symptom	Inspection contents		Possible cause
		YES	BCM signal input circuit
Any of the following components do not operate Parking lamps License plate lamps Tail lamps Front fog lamps (if equipped) 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
A/C compressor does not operate	Perform auto active test.  Does the magnet clutch operate?	YES	Combination meter signal input circuit     CAN communication signal between combination meter and ECM     CAN communication signal between ECM and IPDM E/R
		NO	Magnet clutch     Harness or connector between IPDM E/R and magnet clutch     IPDM E/R

#### < FUNCTION DIAGNOSIS >

Symptom	Inspection contents		Possible cause
	Perform auto active test. Does the oil pressure warning lamp blink?	YES	Harness or connector between IPDM E/R and oil pressure switch     Oil pressure switch     IPDM E/R
Oil pressure warning lamp does not operate		NO	CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and combination meter Combination meter
Cooling fan does not operate	Perform auto active test. Does the cooling fan operate?	YES	ECM signal input circuit     CAN communication signal between ECM and IPDM E/R
		NO	Cooling fan Harness or connector between cooling fan and cooling fan relays Cooling fan relays Harness or connector between IPDM E/R and cooling fan relays IPDM E/R

## CONSULT - III Function (IPDM E/R)

INFOID:0000000005781242

#### APPLICATION ITEM

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

Diagnosis mode	Description
ECU Identification	Allows confirmation of IPDM E/R part number.
Self Diagnostic Result	Displays the diagnosis results judged by IPDM E/R.
Data Monitor	Displays the real-time input/output data from IPDM E/R input/output data.
Active Test	IPDM E/R can provide a drive signal to electronic components to check their operations.
CAN Diag Support Monitor	The results of transmit/receive diagnosis of CAN communication can be read.

#### **SELF DIAGNOSTIC**

Refer to EXL-92, "DTC Index".

#### **DATA MONITOR**

Monitor item

Monitor Item [Unit]	MAIN SIG- NALS	Description
MOTOR FAN REQ [%]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.

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## < FUNCTION DIAGNOSIS >

Monitor Item [Unit]	MAIN SIG- NALS	Description
FR FOG REQ [Off/On]	×	Displays the status of the front fog light request signal received from BCM via CAN communication.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper auto stop signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
IGN RLY1 -REQ [Off/On]		Displays the status of the ignition switch ON signal received from BCM via CAN communication.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
PUSH SW [Off/On]		Displays the status of the push-button ignition switch judged by IPDM E/R.
INTER/NP SW [Off/On]		Displays the status of the clutch interlock switch (M/T models) or CVT shift position (CVT models) judged by IPDM E/R.
ST RLY CONT [Off/On]		Displays the status of the starter relay status signal received from BCM via CAN communication.
IHBT RLY -REQ [Off/On]		Displays the status of the starter control relay signal received from BCM via CAN communication.
ST/INHI RLY [Off/ ST /INHI]		Displays the status of the starter relay and starter control relay judged by IPDM E/R.
DETENT SW [Off/On]		Displays the status of the CVT shift selector (detention switch) judged by IPDM E/R.
DTRL REQ [Off]		Displays the status of the daytime light request signal received from BCM via CAN communication.
OIL P SW [Open/Close]		Displays the status of the oil pressure switch judged by IPDM E/R.
THFT HRN REQ [Off/On]		Displays the status of the theft warning horn request signal received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn reminder signal received from BCM via CAN communication.

# ACTIVE TEST Test item

Test item	Operation	Description
HORN	On	Operates horn relay 1 and horn relay 2 for 20 ms.
FRONT WIPER	Off	OFF
	Lo	Operates the front wiper relay.
	Hi	Operates the front wiper relay and front wiper high relay.
	1	OFF
MOTOR FAN	2	Outputs 50% pulse duty signal (PWM signal) to the cooling fan control module.
	3	Outputs 80% pulse duty signal (PWM signal) to the cooling fan control module.
	4	Outputs 100% pulse duty signal (PWM signal) to the cooling fan control module.

# DIAGNOSIS SYSTEM (IPDM E/R)

# < FUNCTION DIAGNOSIS >

Test item	Operation	Description	
	Off	OFF	
	TAIL	Operates the tail lamp relay.	
EXTERNAL LAMPS	Lo	Operates the headlamp low relay.	
	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals.	
	Fog	Operates the front fog lamp relay.	

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# **COMPONENT DIAGNOSIS**

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

BCM (BODY CONTROL MODULE): Diagnosis Procedure

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Regarding Wiring Diagram information, refer to <u>BCS-75</u>, "COUPE: Wiring Diagram" or <u>BCS-84</u>, "SEDAN: <u>Wiring Diagram"</u>.

# 1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name Fuse and fusible lin	
1	Battery power supply	Н
11	battery power suppry	10

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

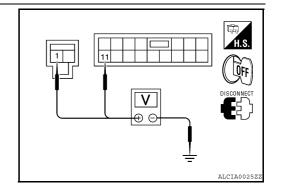
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

# $2.\,$ CHECK POWER SUPPLY CIRCUIT

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

	Voltage (Approx.)			
(				
В	СМ		(Approx.)	
Connector	Terminal	Ground		
M16	1	Ground	Dottom: valtoms	
M17	11		Battery voltage	



#### Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

## 3. CHECK GROUND CIRCUIT

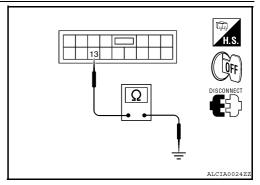
Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector Terminal		Ground	Continuity
M17	13		Yes

#### Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



# BCM (BODY CONTROL MODULE): Special Repair Requirement

INFOID:0000000005781244

# 1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to BCS-6, "CONFIGURATION (BCM): Special Repair Requirement".

### POWER SUPPLY AND GROUND CIRCUIT

#### < COMPONENT DIAGNOSIS >

>> Work End.

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 <u>PCS-34</u>, "COUPE : Wiring <u>Diagram"</u> (coupe) or <u>PCS-40</u>, "SEDAN : Wiring <u>Diagram"</u> (sedan).

## 1. CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
1, 2		B, D
	Battery power supply	42
_		43

#### Is the fuse blown?

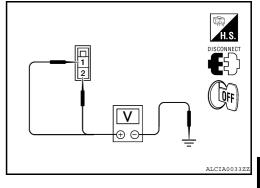
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

# 2. CHECK POWER SUPPLY CIRCUIT

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

(+)			Voltage (V)
IPDM E/R		(-)	(Approx.)
Connector	Terminal		
E16	1	Ground	Battery voltage
	2		Battery Voltage



#### Is the measurement value normal?

YES >> GO TO 3

NO >> Repair harness or connector.

## 3. CHECK GROUND CIRCUIT

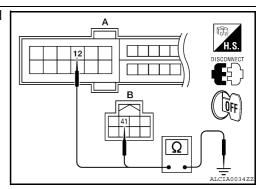
Check continuity between IPDM  $\ensuremath{\mathsf{E/R}}$  harness connectors and ground.

IPDM E/R			Continuity
Connector	Terminal	Cround	
A: E18	12	Ground	Yes
B: E17	41		ies

#### Does continuity exist?

YES >> Inspection End.

NO >> Repair harness or connector.



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#### < COMPONENT DIAGNOSIS >

# HEADLAMP (HI) CIRCUIT

Description INFOID:000000005433900

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 48 and 49, located in the IPDM E/R. Power then flows to the front combination lamps to the headlamp high beam.

## Component Function Check

INFOID:0000000005433901

# 1. CHECK HEADLAMP (HI) OPERATION

#### **NWITHOUT CONSULT-III**

- 1. Start IPDM E/R auto active test. Refer to PCS-14, "Diagnosis Description".
- 2. Check that the headlamp switches to the high beam.

#### NOTE:

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

#### (P)CONSULT-III

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

HI: Headlamp switches to the high beam.

OFF : Headlamp OFF

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

YES >> Headlamp (HI) circuit is normal.

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

## Diagnosis Procedure

INFOID:0000000005433902

Regarding Wiring Diagram information, refer to Dummy cross-reference("XX-XX") (coupe) or Dummy cross-reference("XX-XX") (sedan).

# 1. CHECK HEADLAMP (HI) FUSES

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

Unit	Location	Fuse No.	Capacity
Headlamp HI (LH)	IPDM E/R	48	10A
Headlamp HI (RH)	IPDM E/R	49	10A

#### Is the fuse open?

YES >> Repair the harness and replace the fuse.

NO >> GO TO 2

# 2.CHECK HEADLAMP (HI) OUTPUT VOLTAGE

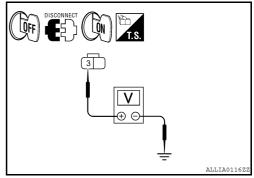
#### **©CONSULT-III ACTIVE TEST**

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

#### < COMPONENT DIAGNOSIS >

With EXTERNAL LAMP ON, check the voltage between the combination lamp connector and ground.

(+)			(-)	Voltage
Connector Termin		Terminal	(-)	voltage
RH	E222 (halogen) E242 (xenon)	3	Ground	Battery voltage
LH	E213 (halogen) E233 (xenon)	3	Giouna	Dattery Voltage



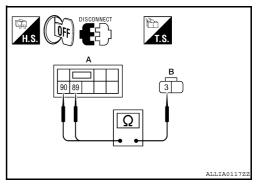
#### Is battery voltage present?

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

# 3.CHECK HEADLAMP (HI) CIRCUIT FOR OPEN

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

	Α		В		Continuity
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	E200	89	E222 (halogen) E242 (xenon)	3	Yes
LH	L200	90	E213 (halogen) E233 (xenon)	3	163



#### Does continuity exist?

YES >> GO TO 4

NO >> Repair the harnesses or connectors.

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

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

Connector		Terminal	_	Continuity
RH	E222 (halogen) E242 (xenon)	4	Ground	Yes
LH	E213 (halogen) E233 (xenon)	4	Glound	165

#### Does continuity exist?

YES >> Inspect the headlamp bulb.

NO >> Repair the harness. ALLIA0118Z

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#### < COMPONENT DIAGNOSIS >

# HEADLAMP (LO) CIRCUIT HEADLAMP (HALOGEN)

## **HEADLAMP (HALOGEN): Description**

INFOID:000000005433903

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 51 and 52, located in the IPDM E/R. Power then flows to the front combination lamps to the headlamp low beam.

## HEADLAMP (HALOGEN): Component Function Check

INFOID:0000000005433904

# 1. CHECK HEADLAMP (LO) OPERATION

#### **WITHOUT CONSULT-III**

- Start IPDM E/R auto active test. Refer to <u>PCS-14, "Diagnosis Description"</u>.
- 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-III

- 1. Select "EXTERNAL LAMP" of IPDM E/R active test item.
- 2. With operating the test items, 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-42, "HEADLAMP (HALOGEN) : Diagnosis Procedure".

# HEADLAMP (HALOGEN) : Diagnosis Procedure

INFOID:0000000005433905

Regarding Wiring Diagram information, refer to Dummy cross-reference("XX-XX") (coupe) or Dummy cross-reference("XX-XX") (sedan).

# 1. CHECK HEADLAMP (LO) FUSES

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

Unit	Location	Fuse No.	Capacity
Headlamp LO (LH)	IPDM E/R	51	15A
Headlamp LO (RH)	IPDM E/R	52	15A

#### Is the fuse open?

YES >> Repair the harness and replace the fuse.

NO >> GO TO 2

# 2.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

#### (P)CONSULT-III

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

#### < COMPONENT DIAGNOSIS >

With EXTERNAL LAMP ON, check the voltage between the combination lamp connector and ground.

(+)			(_)	Voltage	
Connector		Terminal	(-)	voltage	
RH	E223	1	Ground	Battery voltage	
LH	E212	1	Glound		

# ⊕ ⊝

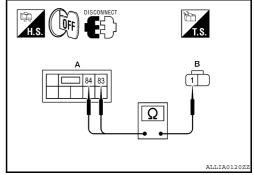
#### Is battery voltage present?

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

# 3.CHECK HEADLAMP (LO) CIRCUIT FOR 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 harness connector.

A B				Continuity	
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	E200	83	E223	1	Yes
LH	L200	84	E212	1	163



#### Does continuity exist?

YES >> GO TO 4

NO >> Repair the harnesses or connectors.

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

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

Coni	nector	Terminal	_	Continuity
RH	E223	2	Ground	Yes
LH	E212	2	Giodila	163

#### Does continuity exist?

>> Inspect the headlamp bulb.

NO >> Repair the harness.

# **HEADLAMP (XENON)**

# **HEADLAMP (XENON): Description**

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 51 and 52, located in the IPDM E/R. Power then flows to the front combination lamps to the headlamp low beam.

# HEADLAMP (XENON): Component Function Check

# 1. CHECK HEADLAMP (LO) OPERATION

#### **WITHOUT CONSULT-III**

- Start IPDM E/R auto active test. Refer to PCS-14, "Diagnosis Description".
- Check that the headlamp is turned ON.

#### NOTE:

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

(P)CONSULT-III

**EXL-43** 2010 Altima Revision: September 2009

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#### < COMPONENT DIAGNOSIS >

- 1. Select "EXTERNAL LAMP" of IPDM E/R active test item.
- 2. With operating the test items, 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-44, "HEADLAMP (XENON): Diagnosis Procedure".

## HEADLAMP (XENON): Diagnosis Procedure

INFOID:0000000005433908

Regarding Wiring Diagram information, refer to Dummy cross-reference("XX-XX") (coupe) or Dummy cross-reference("XX-XX") (sedan).

# 1. CHECK HEADLAMP (LO) FUSES

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

Unit	Location	Fuse No.	Capacity
Headlamp LO (LH)	IPDM E/R	51	15A
Headlamp LO (RH)	IPDM E/R	52	15A

#### Is the fuse open?

YES >> Repair the harness and replace the fuse.

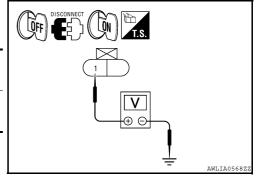
NO >> GO TO 2

# 2.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

#### **©CONSULT-III**

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

(+)			(-)	Voltage
Connector Terminal		(-)	voltage	
RH	E243	1	Ground	Battery voltage
LH	E232	1	Ground	Dattery Voltage



#### Is battery voltage present?

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

# 3.CHECK HEADLAMP (LO) CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.

#### < COMPONENT DIAGNOSIS >

3. Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

АВ			Continuity		
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	E200	83	E243	1	Yes
LH	E200	84	E232	1	165

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#### Does continuity exist?

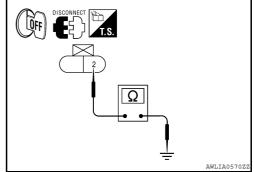
YES >> GO TO 4

NO >> Repair the harnesses or connectors.

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

- 1. Disconnect the front combination lamp connector.
- 2. Check continuity between the front combination lamp harness connector terminal and ground.

Conr	nector	Terminal	_	Continuity
RH	E243	2	Ground	Yes
LH	E232	2	Glound	163



#### Does continuity exist?

YES >> Inspect the headlamp bulb.

NO >> Repair the harness.

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#### FRONT FOG LAMP CIRCUIT

#### < COMPONENT DIAGNOSIS >

### FRONT FOG LAMP CIRCUIT

Description INFOID:000000005433909

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

## Component Function Check

INFOID:0000000005433910

## 1. CHECK FRONT FOG LAMP OPERATION

#### **WITHOUT CONSULT-III**

- 1. Activate IPDM E/R auto active test. Refer to PCS-14, "Diagnosis Description".
- Check that the front fog lamp is turned ON.

#### (P)CONSULT-III

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

**FOG** : Front fog lamp ON **OFF** : Front fog lamp OFF

#### Is the front fog lamp turned ON?

YES >> Front fog lamp circuit is normal.

>> Refer to EXL-46, "Diagnosis Procedure". NO

## Diagnosis Procedure

INFOID:000000005433911

Regarding Wiring Diagram information, refer to Dummy cross-reference("XX-XX") (coupe) or Dummy crossreference("XX-XX") (sedan).

# 1. CHECK FRONT FOG LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Front fog lamp	IPDM E/R	53	15A

#### Is the fuse open?

YES >> Repair the harness and replace the fuse.

NO >> GO TO 2

# 2.check front fog lamp output voltage

- CONSULT-III

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

### FRONT FOG LAMP CIRCUIT

#### < COMPONENT DIAGNOSIS >

5. With EXTERNAL LAMP ON, check the voltage between the fog lamp connector and ground.

(+)			(-)	Voltage
Connector Terminal		Terminal	(-)	voltage
LH	E214	1	Ground	Battery voltage
RH	E227	1	Ground	

# DISCONNECT ON T.S.

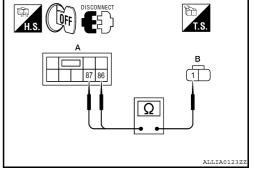
#### Is battery voltage present?

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

# 3.CHECK FRONT FOG LAMP OPEN CIRCUIT

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

АВ			Continuity		
Conr	nector	Terminal	Connector	Terminal	Continuity
RH	E200	86	E227	1	Yes
LH	L200	87	E214	1	165



#### Does continuity exist?

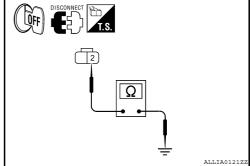
YES >> GO TO 4

NO >> Repair the harnesses or connectors.

# 4. CHECK FRONT FOG LAMP GROUND CIRCUIT

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

Coni	nector	Terminal	_	Continuity
RH	E227	2	Ground	Yes
LH	E214	2	Ground	163



#### Does continuity exist?

YES >> Inspect the fog lamp bulb.

NO >> Repair the harness.

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#### PARKING LAMP CIRCUIT

#### < COMPONENT DIAGNOSIS >

## PARKING LAMP CIRCUIT

Description INFOID:0000000054339912

The IPDM E/R (intelligent power distribution module engine room) controls the tail lamp relay based on inputs from the BCM over the CAN communication lines. When the tail lamp relay is energized, power flows through fuses 46 and 47, located in the IPDM E/R. Power then flows to the front and rear combination lamps.

## Component Function Check

INFOID:0000000005433913

## 1. CHECK PARKING LAMP OPERATION

#### **WITHOUT CONSULT-III**

- 1. Activate IPDM E/R auto active test. Refer to PCS-14, "Diagnosis Description".
- 2. Check that the parking lamp is turned ON.

#### **©CONSULT-III**

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

TAIL : Parking lamp ON OFF : Parking lamp OFF

#### Is the parking lamp turned ON?

YES >> Parking lamp circuit is normal.

NO >> Refer to EXL-48. "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000005433914

Regarding Wiring Diagram information, refer to Dummy cross-reference("XX-XX") (coupe) or Dummy cross-reference("XX-XX") (sedan).

# 1.CHECK FUSES

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

Unit	Location	Fuse No.	Capacity
Parking and side marker lamps (front)	IPDM E/R	46	10A
Tail lamps (rear)	IPDM E/R	47	10A

#### Is the fuse open?

YES >> Repair the harness and replace the fuse.

NO >> GO TO 2

# 2.CHECK TAIL LAMP RELAY OUTPUT (VOLTAGE)

#### (P)CONSULT-III

- 1. Turn the ignition switch OFF.
- 2. Disconnect the front and rear combination lamp connectors.
- 3. Turn the ignition switch ON.
- 4. Select "EXTERNAL LAMP" of IPDM E/R active test item.
- With EXTERNAL LAMP ON, check the voltage between the combination lamp connector and ground.

(+)			Voltago
Connector	Terminal	(-)	Voltage

#### PARKING LAMP CIRCUIT

#### < COMPONENT DIAGNOSIS >

Parking lamps (Sedan)	E218 (LH), E225 (RH)	8		
Parking lamps (Coupe)	E245 (LH), E246 (RH)	10	Ground	Battery voltage
Side marker lamps (Sedan)	E235 (LH), E236 (RH)	10		
Tail lamps	B30 (LH), B45 (RH)	2		

#### Is battery voltage present?

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

# $3. \mathsf{CHECK}$ PARKING LAMP CIRCUIT (OPEN)

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

Connector		Terminal	Connector	Terminal	Continuity
Parking lamps (Sedan)			E218 (LH), E225 (RH)	8	
Parking lamps (Coupe)	E201	92 (LH), 91 (RH)	E245 (LH), E246 (RH)	10	Yes
Side marker lamps (Sedan)			E235 (LH), E236 (RH)	10	
Tail lamps	E18	7	B30 (LH), B45 (RH)	2	•

#### Does continuity exist?

YES >> GO TO 4

NO >> Repair the harnesses or connectors.

## 4. CHECK PARKING LAMP GROUND CIRCUIT

- 1. Disconnect the combination lamp connector.
- 2. Check continuity between the combination lamp harness connector terminal and ground.

Connector		Terminal	_	Continuity
Parking lamps (Sedan)	E218 (LH), E225 (RH)	9		
Parking lamps (Coupe)	E245 (LH), E246 (RH)	11	Ground	Yes
Side marker lamps (Sedan)	E235 (LH), E236 (RH)	11		
Tail lamps	B30 (LH), B45 (RH)	5		

#### Does continuity exist?

YES >> Inspect the parking lamp bulb.

NO >> Repair the harness.

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#### TURN SIGNAL LAMP CIRCUIT

#### < COMPONENT DIAGNOSIS >

## TURN SIGNAL LAMP CIRCUIT

Description INFOID:000000005433915

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

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

#### NOTE:

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

# Component Function Check

INFOID:0000000005433916

# 1. CHECK TURN SIGNAL LAMP

## (P)CONSULT-III

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

LH: Turn signal lamp LH blinkingRH: Turn signal lamp RH blinkingOFF: The turn signal lamp OFF

#### Does the turn signal lamp blink?

YES >> Turn signal lamp circuit is normal.

NO >> Refer to EXL-50, "Diagnosis Procedure".

## **Diagnosis Procedure**

INFOID:0000000005433917

Regarding Wiring Diagram information, refer to Dummy cross-reference("XX-XX") (coupe) or Dummy cross-reference("XX-XX") (sedan).

# 1. CHECK TURN SIGNAL LAMP BULB

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

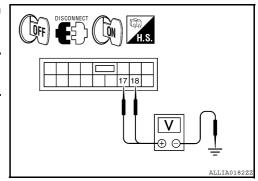
YES >> GO TO 2

NO >> Replace the bulb.

# $2.\mathsf{CHECK}$ TURN SIGNAL LAMP OUTPUT VOLTAGE

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

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



### **TURN SIGNAL LAMP CIRCUIT**

#### < COMPONENT DIAGNOSIS >

(RH)	M17	17		
(LH)	M17	18	Ground	(V) 15 10 5 0

#### Is the measurement value normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-96, "Removal and Installation".

# 3.check turn signal lamp circuit for open

- Turn the ignition switch OFF.
- Disconnect BCM connector.
- Check the continuity between the BCM harness connector and the front combination lamp, the rear combination lamp harness connector or the door mirror connector (if equipped with turn signals in mirrors).

Connector		Terminal	Connector	Terminal	Continuity
Rear (LH)			B30	3	
Front (LH)	M17	18	E217 (sedan) E237 (coupe)	5	
Door mirror (LH)			D4	7	Yes
Rear (RH)			B45	3	165
Front (RH)	M17	17	E224 (sedan) E244 (coupe)	5	
Door mirror (RH)			D107	7	

#### Does continuity exist?

YES >> GO TO 4

NO >> Repair the harnesses or connectors.

# 4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector and the ground.

Conr	nector	Terminal	_	Continuity	
(LH)	M17	18	Ground	No	
(RH)	IVIII	17	Ground	INO	

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 5

# 5. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

Check continuity between the front combination lamp, the rear combination lamp or the door mirror and ground (if equipped with turn signals in mirrors).

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## **TURN SIGNAL LAMP CIRCUIT**

# < COMPONENT DIAGNOSIS >

Front (RH)	E224 (sedan) E244 (coupe)	7		
Front (LH)	E217 (sedan) E237 (coupe)	7		
Rear (RH)	B45	5	Ground	Yes
Rear (LH)	B30	5		
Door mirror (RH)	D107	8		
Door mirror (LH)	D4	8		

### Does continuity exist?

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

NO >> Repair the harnesses or connectors.

### **OPTICAL SENSOR**

#### < COMPONENT DIAGNOSIS >

## **OPTICAL SENSOR**

Description INFOID:0000000005433918

The optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to the BCM.

# Component Function Check

# INFOID:0000000005433919

# 1. CHECK OPTICAL SENSOR SIGNAL BY CONSULT-III

### (P)CONSULT-III

- 1. Turn the ignition switch ON.
- Select "OPTICAL SENSOR" of BCM (HEAD LAMP) DATA MONITOR item.
- Turn the lighting switch to AUTO. 3.
- With the optical sensor illuminating, check the monitor status.

Monitor item	Condition	Voltage
OPTICAL SENSOR	When illuminating	3.1V or more *
OF HOAL SENSOR	When shutting off light	0.6V or less

<sup>\*:</sup> Illuminates the optical sensor. The value may be less than the standard value if brightness is weak.

#### Is the item status normal?

YES >> Optical sensor is normal.

NO >> Refer to EXL-53, "Diagnosis Procedure".

# **Diagnosis Procedure**

Regarding Wiring Diagram information, refer to Dummy cross-reference("XX-XX") (coupe) or Dummy crossreference("XX-XX") (sedan).

# 1. CHECK OPTICAL SENSOR POWER SUPPLY INPUT

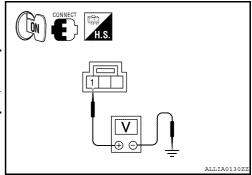
- Turn the ignition switch ON.
- 2. Turn the lighting switch to AUTO.
- Check the voltage between the optical sensor harness connector and ground.

(	+)	(-)	Voltage	
Connector	Terminal	(-)	Voltage	
M66	1	Ground	5V	

## Is the voltage reading as specified?

YES >> GO TO 2 >> GO TO 4 NO

9					
Ζ.	CHECK	OPTICAL	SENSOR	GROUND	INPUT



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INFOID:0000000005433920

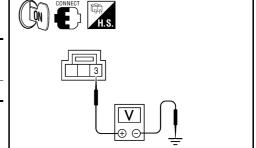
**EXL** 

### **OPTICAL SENSOR**

#### < COMPONENT DIAGNOSIS >

Check the voltage between the optical sensor harness connector and ground.

(+) Connector Terminal		(-)	Voltage
		(-)	voltage
M66	3	Ground	Less than 0.2V



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### Is the voltage reading as specified?

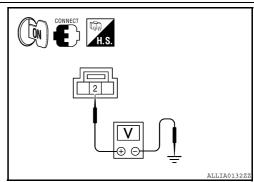
YES >> GO TO 3 NO >> GO TO 6

# 3. CHECK OPTICAL SENSOR SIGNAL OUTPUT

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

(+) Connector Terminal (-)		(_)	Condition	Voltage
		(-)	Condition	voltage
M66	M66 2 Ground	When illuminating	3.1V or more *	
IVIOO	l66 2 Ground		When shutting off light	0.6V or less

<sup>\*:</sup> Illuminate the optical sensor. The value may be less than the standard if brightness is weak.



#### Is the voltage reading as specified?

YES >> GO TO 7

NO >> Replace the optical sensor.

# 4. CHECK OPTICAL SENSOR POWER SUPPLY FOR OPEN CIRCUIT

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

А		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	1	M18	46	Yes

# 

#### Does continuity exist?

YES >> GO TO 5

NO >> Repair the harnesses or connectors.

# 5. CHECK OPTICAL SENSOR POWER SUPPLY FOR SHORT CIRCUIT

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

Connector	Terminal	_	Continuity
M66	1	Ground	No

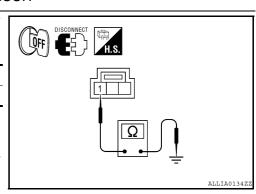
## Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM. Refer to BCS-96. "Removal and Installation".



- 1. Turn the ignition switch OFF.
- 2. Disconnect the optical sensor connector and BCM connector.



#### **OPTICAL SENSOR**

#### < COMPONENT DIAGNOSIS >

Check continuity between the optical sensor harness connector and the BCM harness connector.

А			Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M66	3	M18	45	Yes

## Does continuity exist?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair the harnesses or connectors.

# 7.CHECK OPTICAL SENSOR SIGNAL FOR OPEN CIRCUIT

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

A		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	2	M18	21	Yes

#### Does continuity exist?

YES >> GO TO 8

NO >> Repair the harnesses or connectors.

# 8. CHECK OPTICAL SENSOR SIGNAL FOR SHORT CIRCUIT

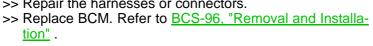
Check the continuity between the optical sensor harness connector and ground.

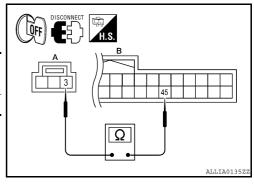
Connector	Terminal	_	Continuity
M66	2	Ground	No

#### Does continuity exist?

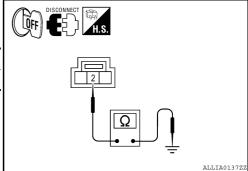
YES >> Repair the harnesses or connectors.

NO





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## < ECU DIAGNOSIS >

# **ECU DIAGNOSIS**

# BCM (BODY CONTROL MODULE)

Reference Value

### VALUES ON THE DIAGNOSIS TOOL

FR WIPER HI		
I IX VVII LIX I II	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
TIX WASHER SW	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
TIX WIF LIX IIVI	Front wiper switch INT	ON
FR WIPER STOP	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CICNIAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CICNIAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAMD CW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LILDEAM CVV	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CW/4	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
LIEAD LAMD CW 2	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
DA CCINIC CW	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIGHT OW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC SW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
DOOD CW AC	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOD SW DD	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOD SW D	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON

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# < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
KET CTL LK-SW	Driver door key cylinder LOCK position	ON
KEY CYL LINI CW/	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
LIAZADD CW	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TD CANCEL OW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD ODEN CVV	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
	Trunk lid closed	OFF
TRNK/HAT MNTR	Trunk lid opened	ON
DIVE I OOK	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
DIZE LINII OCIZ	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
KKE-TR/DD	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
RRE-FAINIC	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RRE-F/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
TITLE-WODE ON	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
	When outside of the vehicle is dark	Close to 0 V
REQ SW-DR	When driver door request switch is not pressed	OFF
NEQ 3W-DIX	When driver door request switch is pressed	ON
REQ SW-AS	When passenger door request switch is not pressed	OFF
NLQ 3W-A3	When passenger door request switch is pressed	ON
REQ SW-BD/TR	When trunk request switch is not pressed	OFF
NEW SW-DD/TK	When trunk request switch is pressed	ON
PUSH SW	When engine switch (push switch) is not pressed	OFF
1 0011 077	When engine switch (push switch) is pressed	ON
ICN DI V2 E/D	Ignition switch OFF or ACC	OFF
IGN RLY2-F/B	Ignition switch ON	ON
ACC DIVE/D	Ignition switch OFF	OFF
ACC RLY-F/B	Ignition switch ACC or ON	ON

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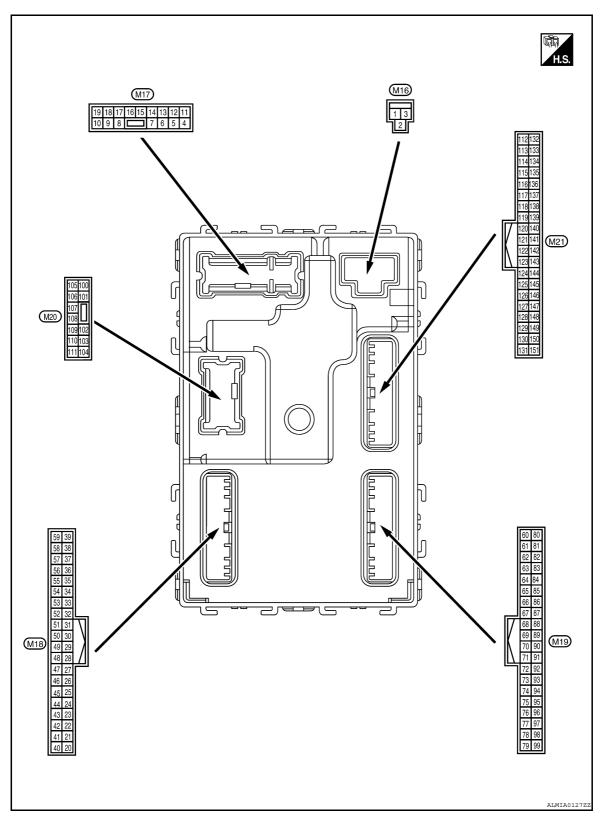
Monitor Item	Condition	Value/Status
OLLITOLI OM	When the clutch pedal is not depressed	OFF
CLUTCH SW	When the clutch pedal is depressed	ON
DDAKE OWA	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
DETE/OANOL OW	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
CET DAYALOW	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
LINILK CEN DD	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
DUCH CW/IDDM	When engine switch (push switch) is not pressed	OFF
PUSH SW-IPDM	When engine switch (push switch) is pressed	ON
ION DIVA E/D	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
DETE OW IDDM	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
CET DN IDDM	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
OFT D MET	When selector lever is in any position other than P	OFF
SFT P-MET	When selector lever is in P position	ON
CET NI MET	When selector lever is in any position other than N	OFF
SFT N-MET	When selector lever is in N position	ON
	Engine stopped	STOP
ENGINE STATE	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK ELAC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DDMT ENO OTAT	When the engine start is prohibited	RESET
PRMT ENG STAT	When the engine start is permitted	SET
KEY OW OLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRINI ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE

## < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CON IKW IDS	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
OOM INWIDE	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
·· ·	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
irs	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
172	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
IFI	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
	When ID of front LH tire transmitter is not registered	YET
D REGST FR1	When ID of front RH tire transmitter is registered	DONE
ID RECOTTINI	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
IN ICOSI KKI	When ID of rear RH tire transmitter is not registered	YET
ID DECCE DI 4	When ID of rear LH tire transmitter is registered	DONE
ID REGST RL1	When ID of rear LH tire transmitter is not registered	YET
MARAUNO LAND	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON
	Tire pressure warning alarm is not sounding	OFF
BUZZER	Tire pressure warning alarm is sounding	ON

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Terminal Layout



Physical Values

	inal No. e color)	Description			O a Reco	Value	Α
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	В
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage	С
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage	
4	4 On and Interior room lamp		Outrout	After passing the in er operation time	nterior room lamp battery sav-	OV	D
(P/W)	Ground	power supply	Output	Any other time after passing the interior room lamp battery saver operation time		Battery voltage	Е
5	Ground	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)	Ground	LOCK	Output	FIGHT GOOF KH	Other than UNLOCK (actuator is not activated)	OV	F
7	0	Otan Inna	0	Otan Inna	ON	0V	
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage	G
8	8 (V) Ground All doors LOCK	Output	out All doors	LOCK (actuator is activated)	Battery voltage		
(V)		All doors LOCK	Output	All doors	Other than LOCK (actuator is not activated)	OV	Н
9	9 . Front door LH UN-	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage	ı	
(G)	Ground	LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	oV	
10 <sup>1</sup>	0	Rear door RH and	0	Rear door RH	UNLOCK (actuator is activated)	Battery voltage	J
(G/Y)	Ground	rear door LH UN- LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	oV	K
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch ON		OV	EXL
					OFF	0V	
		Engine quitab (qual				NOTE: When the illumination brightening/dimming level is in the neutral position	M
14 <sup>6</sup> (R/Y)	Ground switch	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	(V) 10 0	N O
						JSNIA0010GB	Б

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
	( )		Output		OFF	OV
14 <sup>1</sup> (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position  (V)  10  0  JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Ground	7.00 maicator iamp	Output	igilition switch	ACC or ON	0V
					Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
					Turn signal switch OFF	6.5 V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E
19		Room lamp timer		Interior room	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	0V
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V
(P/B)	Oround	Optical serisor signal	прис	ON	When outside of the vehi- cle is dark	Close to 0V
22	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	ov
(R/Y)		mput	switch	ON (clutch pedal is depressed)	Battery voltage	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop Jamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	ov
(O/L)	Cround	Stop lamp switch 2			ON (brake pedal is de- pressed)	Battery voltage

	inal No.	Description			0 150	Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
27 (G/W)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0
					UNLOCK status	0V
29	Ground	Key slot switch	Input	_	(ey is inserted into key slot	Battery voltage
(Y)				When Intelligent K	ey is not inserted into key slot	0V
30	Ground	ACC feedback signal	Input	Ignition switch	OFF	0
(V/Y)				<b>J</b>	ACC or ON	Battery voltage
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V
(G)		ger feedback signal		fogger switch	ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms  JPMIA0011GB
					ON (when front door RH opens)	11.8 V 0V
33	Ground	Compressor ON sig-	Input	A/C switch	OFF	9.0 - 12.0V
(SB)	0.000	nal		, , C GG	ON	0V
34 <sup>2</sup>	0	Front door lock as-		Front door lock	OFF (neutral)	5V
(L/R)	Ground	sembly LH (key cylin- der switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V
36 <sup>2</sup>				Door lock/unlock	Lock	Battery voltage
(GR)	Ground	Lock switch signal	Input	switch	Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms  JPMIA0012GB 1.1V
					ON	0V
38		Door wind		Door windows do	OFF	5V
(GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	ON	0V
39 <sup>2</sup>				Door lock/unlock	Unlock	Battery voltage
(GR/	Ground	Unlock switch signal	Input	switch	Lock	0V

	inal No.	Description				Value
	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
40 <sup>3</sup> (Y/G)	(-)	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OFI	F or ACC	0V
41	Cround	Engine switch (push	Output	Engine switch	ON	5.5V
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	0V
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0V
45 (P)	Ground	Receiver & sensor ground	Input	lamp Ignition switch ON	OFF	Battery voltage  0V
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	OV
(V/W)	Cround	power supply output	Output	ignition switch	ACC or ON	5.0V
47		Ground Tire pressure receiv- Input/ Ignition so Output ON	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s
(G/O)	Glodina		ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
48	Ground	Selector lever P/N	Input	Selector lever	P or N position	12.0V
(R/G)		position signal	· 		Except P and N positions	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	0V  (V) 15 10 5 0  JPMIA0014GB  11.3V
					OFF	Battery voltage

Terminal No		Description			0 - 191	Value	
(Wire color)	_	Signal name	Input/ Output		Condition	(Approx.)	
50 (LG/ Grou		Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF Lighting switch 1ST Lighting switch high-beam Lighting switch 2ND  Turn signal switch RH	0V  (V) 15 10 5 0 2 ms	
51 (L/W) Grou	und	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)  Front wiper switch HI (Wiper intermittent dial 4)  Any of the conditions below with all switch OFF  Wiper intermittent dial 1  Wiper intermittent dial 2  Wiper intermittent dial 3  Wiper intermittent dial 6  Wiper intermittent dial 7	10.7V  OV  (V) 15 10 2 ms  JPMIA0032GB	
52 (G/B) Grou	und	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)  Front washer switch ON (Wiper intermittent dial 4)  Any of the conditions below with all switch OFF  Wiper intermittent dial 1  Wiper intermittent dial 5  Wiper intermittent dial 6	0V  (V) 15 10 5 0 2 ms  JPMIA0033GB 10.7V	
53 (LG/ Grou R)	und	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF Front wiper switch INT Front wiper switch LO  Lighting switch AUTO	0V  (V) 15 10 2 ms  JPMIA0034GB  10.7V	
54 (G/Y) Grou	und	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Front fog lamp switch ON Lighting switch 2ND Lighting switch flash-to- pass Turn signal switch LH	0V  (V) 15 10 5 0 2 ms  JPMIA0035GB	
55	und	Front blower monitor	Input	Front blower mo-	ON	Battery voltage	

	inal No.	Description				
(Wire	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)	Front door lock as-	Output	Front door lock	OFF (neutral)	5V
56 <sup>2</sup> (L/B)	Ground	sembly LH (key cylinder switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms  JPMIA0011GB 11.8V
					ON (front door LH OPEN)	0V
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)		ger relay		fogger	Not activated	0V
60 (B/R)		Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
61	Ground	Center console an-	Qutput	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
61 (W/R)	Ground	tenna 2 (+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

	ninal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
62 <sup>4</sup>		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(B/Y)	Ground	RH antenna (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1   I   I   I   I   I   I   I   I   I	
63 <sup>4</sup> Ground	Crown	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(LG)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 1   JMKIA0063GB	
64 <sup>4</sup>	0	Front outside handle	0.11	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 1   I   I   I   I   I   I   I   I   I	
(V) G	Ground	LH antenna (-)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	inal No. e color)	Description			0	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
65 <sup>4</sup>	Ground	Front outside handle		When the front door LH request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(P)	Clound	LH antenna (+)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage
71	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
71 (L/O)	Ground			When operating ei	ither button on Intelligent Key	(V) 15 10 5 0 1 ms

## < ECU DIAGNOSIS >

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5	В
						2 ms JPMIA0041GB	D
75	Ground	Combination switch	Input	Combination	Front fog lamp switch ON	(V) 15 10 5	Е
(R/Y)	Ciouna	INPUT 5	mput	switch	(Wiper intermittent dial 4)	2 ms	F
						1.3V	G
					Any of the conditions below with all switch OFF  Wiper intermittent dial 1  Wiper intermittent dial 2  Wiper intermittent dial 6  Wiper intermittent dial 7	(V) 15 10 5 0	Н
							1

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	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
			Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms  JPMIA0041GB
76	Ground	Combination switch			Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
(R/G)		INPUT 3			Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
78 (P)	Ground	CAN-L	Input/ Output		_	_
79 (L)	Ground	CAN-H	Input/ Output		_	_
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	0V  (V) 15 10 5 0 1 s  JPMIA0015GB
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	ON OFF or ACC ON	Battery voltage  0V  Battery voltage

	inal No.	Description			<del></del>	Value	А
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V	В
(L)	Giodila	AGO Telay Collifol	Juipui	ignition switch	ACC or ON	Battery voltage	D
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage	С
87	Ground	Selector lever P posi-	Input	Selector lever	P position	OV	
(G/B)	Ground	tion switch	input	Sciector level	Any position other than P	Battery voltage	
					ON (pressed)	OV	D
88 <sup>4</sup> (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	E
		Front door LH request switch	Input	Front door LH request switch	ON (pressed)	0V	G
89 <sup>4</sup> (B/W)	Ground				OFF (not pressed)	(V) 15 10 5 0	Н
						10 ms JPMIA0016GB	
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V	J
(Y)	Giodila	lay control	Output	ignition switch	ON	Battery voltage	
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage	K

	ninal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Turn signal switch LH	(V) 15 10 5 2 ms 1.3V
95 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description			O a life a	Value	А	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	/ (	
		Combination switch INPUT 4	Input	put Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0041GB	B C	
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 2 ms  JPMIA0038GB	E	
96 (P/B)	Ground					1.3V	G	
(P/B)						Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0036GB 1.3V	Н
					Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	(V) 15 10 0 2 ms	J K	
						JPMIA0039GB 1.3V	EXL	

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	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
97 (R/B)		Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	(V) 15 10 5 0 2 ms  JPMIA0041GB 1.4V
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB
	Ground				Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT	(V) 15 10 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 2 ms  JPMIA0040GB 1.3V
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 10 10 ms  JPMIA0012GB 1.1V

# < ECU DIAGNOSIS >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
103 Ground		Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	
(V)	Giouna	Trunk lid opening	Output	TTUTIK IIU	Close (trunk lid opener actuator is not activated)	0V
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
(V/W)					OFF	Battery voltage
114	Ground	round Rear parcel shelf antenna 1 (-)  Output OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GE		
(B)	Ground		Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s
115 (W) Ground	Ground	Ground Rear parcel shelf antenna 1 (+)		Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GE
	Ground		Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GI

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	inal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)	
1184		Rear bumper anten-		When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(L/O)	Ground	na (-)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
119 <sup>4</sup> (BR/	119 <sup>4</sup> Rear humper anten-	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0  JMKIA0062GB			
W)	Ground	na (+)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s  JMKIA0063GB	
127 (BR/	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage	
W)		E/R) control	•		ON	0V	
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (trunk is open)	OV	

Terminal No. Description (Wire color)		_			Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
				Ignition switch OFF (M/T vehi-	When the clutch pedal is depressed	Battery voltage
			cle)	When the clutch pedal is not depressed	ov	
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON (other than M/	When selector lever is in P or N position and the brake is depressed	Battery voltage
				T vehicle)	When selector lever is in P or N position and the brake is not depressed	0V
140	0	Engine switch (push	lanut	Engine switch	Pressed	0V
(BR)	Ground	switch)	Input	(push switch)	Not pressed	Battery voltage
					ON (pressed)	0V
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms 1.0V
144 <sup>4</sup>	Ground	Intelligent Key warn-	Output	Request switch	Sounding	0V
(GR)		ing buzzer		buzzer	Not sounding	Battery voltage
144 <sup>5</sup> (GR)	Ground	Outside warning buzzer	Output	Outside warning buzzer	Sounding	0V
					Not sounding Pressed	Battery voltage  0V
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Not pressed	Battery voltage
148 <sup>1</sup> (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes) ON (when rear door RH	(V) 15 10 5 0 10 ms  JPMIA0011GB 11.8V
149 <sup>1</sup> (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms 11.8V
					ON (when rear door LH opens)	0V

<sup>1:</sup> Sedan

<sup>2:</sup> With LH front window anti-pinch

### < ECU DIAGNOSIS >

- 3: With LH and RH front window anti-pinch
- 4: With Intelligent Key
- 5: Without Intelligent Key
- 6: Coupe

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent  • Starter control relay signal  • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following signal communication status becomes consistent</li> <li>Starter motor relay control signal</li> <li>Starter relay status signal (CAN)</li> </ul>
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	<ul> <li>When any of the following conditions is fulfilled</li> <li>Power position changes to ACC</li> <li>Receives engine status signal (CAN)</li> </ul>
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled Power position changes to ACC Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled  Status 1  Clutch switch signal (CAN from ECM): ON  Clutch interlock switch signal: OFF (0 V)  Status 2  Clutch switch signal (CAN from ECM): OFF  Clutch interlock switch signal: OFF (Battery voltage)

# DTC Inspection Priority Chart

INFOID:0000000005781250

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT     U1010: CONTROL UNIT (CAN)

### < ECU DIAGNOSIS >

Priority	DTC	
	B2190: NATS ANTENNA AMP     B2191: DIFFERENCE OF KEY	
3	B2191: DIFFERENCE OF KEY     B2192: ID DISCORD BCM-ECM	
3	B2193: CHAIN OF BCM-ECM	
	B2195: ANTI SCANNING	
	B2553: IGNITION RELAY	
	B2555: STOP LAMP	
	B2556: PUSH-BTN IGN SW	
	B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY	
	B2601: SHIFT POSITION	
	B2602: SHIFT POSITION  BASES SHIFT POSI	
	B2603: SHIFT POSI STATUS     PROSAL PAIR SW.	
	<ul><li>B2604: PNP SW</li><li>B2605: PNP SW</li></ul>	
	B2608: STARTER RELAY	
	B260A: IGNITION RELAY	
4	B260F: ENG STATE SIG LOST	
	B2614: ACC RELAY CIRC	
	B2615: BLOWER RELAY CIRC	
	B2616: IGN RELAY CIRC	
	B2617: STARTER RELAY CIRC  B2618: B26	
	B2618: BCM     B261A: BUCH BTN ICN CW	
	B261A: PUSH-BTN IGN SW     B261E: VEHICLE TYPE	
	B26F1: ENG STATE NO RECIV	
	B26E8: CLUTCH SW	
	B26EA: KEY REGISTRATION	
	C1729: VHCL SPEED SIG ERR	
	U0415: VEHICLE SPEED SIG	
	C1704: LOW PRESSURE FL     C1704: LOW PRESSURE FR	
	C1705: LOW PRESSURE FR     C1706: LOW PRESSURE RR	
	C1706: LOW PRESSURE RR     C1707: LOW PRESSURE RL	
	C1707: LOW F RESSORE RE     C1708: [NO DATA] FL	
	• C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	
	C1711: [NO DATA] RL	
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR     C4745: [CHECKSUM ERR] RI	
5	C1715: [CHECKSUM ERR] RL     C1716: [PRESSDATA ERR] FL	
3	C1710. [FRESSDATA ERR] FE     C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR	
	C1719: [PRESSDATA ERR] RL	
	C1720: [CODE ERR] FL	
	C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR     C1722: [CODE ERR] RR	
	C1723: [CODE ERR] RL     C4704: [PATT VOLT   COM EL	
	C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FP	
	C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR	
	C1726. [BATT VOLT LOW] RR  C1727: [BATT VOLT LOW] RL	
	C1734: CONTROL UNIT	
	B2622: INSIDE ANTENNA	
6	B2623: INSIDE ANTENNA	

DTC Index

### NOTE:

Details of time display

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-38, "Description"
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-39, "DTC Logic"
U0415: VEHICLE SPEED SIG	_	_	_	BCS-40, "Description"
B2190: NATS ANTENNA AMP	×	_	_	SEC-53, "Description" (Coupe)  SEC-229, "Description" (Sedan with I-Key)  SEC-399, "Description" (Sedan without I-Key)
B2191: DIFFERENCE OF KEY	×	_	_	SEC-56, "Description" (Coupe) SEC-232, "Description" (Sedan with I-Key) SEC-402, "Description" (Sedan without I-Key)
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-57, "Description" (Coupe) SEC-233, "Description" (Sedan with I-Key) SEC-403, "Description" (Sedan without I-Key)
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-58, "Description" (Coupe) SEC-234, "Description" (Sedan with I-Key) SEC-404, "Description" (Sedan without I-Key)
B2195: ANTI SCANNING	×	_	_	SEC-59, "Description" (Coupe) SEC-235, "Description" (Sedan with I-Key) SEC-405, "Description" (Sedan without I-Key)
B2553: IGNITION RELAY	_	_	_	PCS-61, "Description"
B2555: STOP LAMP	_	_	_	SEC-60, "Description" (Coupe)  SEC-236, "Description" (Sedan with I-Key)  SEC-406, "Description" (Sedan without I-Key)
B2556: PUSH-BTN IGN SW	_	×	_	SEC-63, "Description" (Coupe)  SEC-239, "Description" (Sedan with I-Key)  SEC-409, "Description" (Sedan without I-Key)
B2557: VEHICLE SPEED	_	×	_	SEC-65, "Description" (Coupe)  SEC-241, "Description" (Sedan with I-Key)  SEC-411, "Description" (Sedan without I-Key)

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# < ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2560: STARTER CONT RELAY	×	×	_	SEC-66, "Description" (Coupe) SEC-242, "Description" (Sedan with I- Key) SEC-412, "Description" (Sedan without
B2562: LOW VOLTAGE	×	_	_	I-Key) BCS-41, "DTC Logic"
B2601: SHIFT POSITION	_	×	_	SEC-67, "Description" (Coupe)  SEC-243, "Description" (Sedan with I-Key)  SEC-413, "Description" (Sedan without I-Key)
B2602: SHIFT POSITION	_	×	_	SEC-71, "Description" (Coupe)  SEC-246, "Description" (Sedan with I-Key)  SEC-416, "Description" (Sedan without I-Key)
B2603: SHIFT POSI STATUS	_	×	_	SEC-74, "Description" (Coupe)  SEC-249, "Description" (Sedan with I-Key)  SEC-419, "Description" (Sedan without I-Key)
B2604: PNP SW	_	×	_	SEC-77, "Description" (Coupe)  SEC-252, "Description" (Sedan with I-Key)  SEC-422, "Description" (Sedan without I-Key)
B2605: PNP SW	_	×	_	SEC-79, "Description" (Coupe)  SEC-254, "Description" (Sedan with I-Key)  SEC-424, "Description" (Sedan without I-Key)
B2608: STARTER RELAY	×	×	_	SEC-81, "Description" (Coupe)  SEC-256, "Description" (Sedan with I-Key)  SEC-426, "Description" (Sedan without I-Key)
B260A: IGNITION RELAY	×	×	_	PCS-63, "Description"
B260F: ENG STATE SIG LOST	×	×	_	SEC-83, "Description" (Coupe)  SEC-258, "Description" (Sedan with I-Key)  SEC-428, "Description" (Sedan without I-Key)
B2614: ACC RELAY CIRC	_	×	_	PCS-66, "Description"
B2615: BLOWER RELAY CIRC	_	×	_	PCS-69, "Description"
B2616: IGN RELAY CIRC	_	×	_	PCS-72, "Description"
B2617: STARTER RELAY CIRC	×	×	_	SEC-87, "Description" (Coupe)  SEC-262, "Description" (Sedan with I-Key)  SEC-432, "Description" (Sedan without I-Key)
B2618: BCM	×	×	_	PCS-75, "Description"
B261A: PUSH-BTN IGN SW	_	×	_	SEC-90, "Description" (Coupe)  SEC-265, "Description" (Sedan with I-Key)  SEC-435, "Description" (Sedan without I-Key)

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-89, "Description" (Coupe)  SEC-264, "Description" (Sedan with I-Key)  SEC-434, "Description" (Sedan without I-Key)
B2622: INSIDE ANTENNA	_	_	_	DLK-60, "Description" (Coupe) DLK-283, "Description" (Sedan with I-Key) DLK-484, "Description" (Sedan without I-Key)
B2623: INSIDE ANTENNA	_	_	_	DLK-63, "Description" (Coupe) DLK-286, "Description" (Sedan with I-Key) DLK-487, "Description" (Sedan without I-Key)
B26E1: ENG STATE NO RES	×	×	_	SEC-92, "Description" (Coupe) SEC-267, "Description" (Sedan with I-Key) SEC-437, "Description" (Sedan without I-Key)
B26E8: CLUTCH SW	×	×	_	SEC-84, "Description" (Coupe)  SEC-259, "Description" (Sedan with I-Key)  SEC-429, "Description" (Sedan without I-Key)
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	SEC-86, "Description" (Coupe)  SEC-261, "Description" (Sedan with I-Key)  SEC-431, "Description" (Sedan without I-Key)
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR	_	_	×	WT-44, "Self-Diagnosis (With CON-
C1706: LOW PRESSURE RR	_	_	×	SULT-III)"
C1707: LOW PRESSURE RL	_	_	×	
C1708: [NO DATA] FL	_	_	×	
C1709: [NO DATA] FR	_	_	×	WT-14, "Description"
C1710: [NO DATA] RR	_	_	×	<u>vv 1-14, Description</u>
C1711: [NO DATA] RL	_	_	×	
C1712: [CHECKSUM ERR] FL	_		×	
C1713: [CHECKSUM ERR] FR	_	_	×	WT-16, "Description"
C1714: [CHECKSUM ERR] RR	_	_	×	WI-TO, Description
C1715: [CHECKSUM ERR] RL	_		×	
C1716: [PRESSDATA ERR] FL	_	_	×	
C1717: [PRESSDATA ERR] FR	_		×	WT-18, "Description"
C1718: [PRESSDATA ERR] RR	_	_	×	Willow Description
C1719: [PRESSDATA ERR] RL		_	×	

# < ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
C1720: [CODE ERR] FL	_	_	×		
C1721: [CODE ERR] FR	_	_	×		
C1722: [CODE ERR] RR	_	_	×		
C1723: [CODE ERR] RL	_	_	×	WT-16, "Description"	
C1724: [BATT VOLT LOW] FL	_	_	×	<u>wisto, Description</u>	
C1725: [BATT VOLT LOW] FR	_	_	×		
C1726: [BATT VOLT LOW] RR	_	_	×		
C1727: [BATT VOLT LOW] RL	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	×	WT-19, "Description"	
C1734: CONTROL UNIT	_	_	×	WT-20, "Description"	

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< ECU DIAGNOSIS >

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

Reference Value

### VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 - 100 %
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL OCUD DEO	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On
HL LO REQ	Lighting switch OFF		Off
FIL LO REQ	Lighting switch 2ND HI or AUTO	(Light is illuminated)	On
LI LI DEO	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI		On
		Front fog lamp switch OFF	Off
FR FOG REQ	Lighting switch 2ND or AUTO (Light is illuminated)	<ul> <li>Front fog lamp switch ON</li> <li>Daytime running light activated (Only for Canada models)</li> </ul>	On
	Ignition switch ON	Front wiper switch OFF	STOP
ED WID DEO		Front wiper switch INT	1LOW
FR WIP REQ		Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
IGN RLY1 -REQ	Ignition switch OFF or ACC		Off
IGN KLTT-KEQ	Ignition switch ON		On
ION DLV	Ignition switch OFF or ACC		Off
IGN RLY	Ignition switch ON		On
PUSH SW	Release the push-button ignition	n switch	Off
TUON 9W	Press the push-button ignition s	witch	On
	Ignition switch ON	CVT selector lever in any position other than P or N (CVT models)	Off
INITED/ND CV4/		Release clutch pedal (M/T models)	
INTER/NP SW	Ignition switch ON	CVT selector lever in P or N position (CVT models)	On
		Depress clutch pedal (M/T models)	
ST RLY CONT	Ignition switch ON	-	Off
OT ALL COM	At engine cranking		On

< ECU DIAGNOSIS >

Monitor Item	Con	dition	Value/Status	
IHBT RLY -REQ	Ignition switch ON		Off	
INDI KLI -KEQ	At engine cranking		On	
	Ignition switch ON		Off	
	At engine cranking		ST →INHI	
ST/INHI RLY		control relay cannot be recognized by when the starter relay is ON and the	UNKWN	
DETENT SW	Ignition switch ON  Press the selector button with CVT selector lever in P position CVT selector lever in any position other than P			
	Release the CVT selector button win NOTE: The lever is fixed ON for M/T	On		
DTRL REQ	DTRL OFF		Off	
DIREREQ	DTRL ON		On	
OIL P SW	Ignition switch OFF, ACC or engine	running	Open	
OIL F 3W	Ignition switch ON	ch ON		
	Not operated		Off	
THFT HRN REQ	Panic alarm is activated     Horn is activated with VEHICLE S TEM	On		
HODN CHIED	Not operated	Off		
HORN CHIRP	Door locking with Intelligent Key (ho	orn chirp mode)	On	
CRNRNG LMP REQ	NOTE: This item is displayed, but cannot be	e monitored.	Off	

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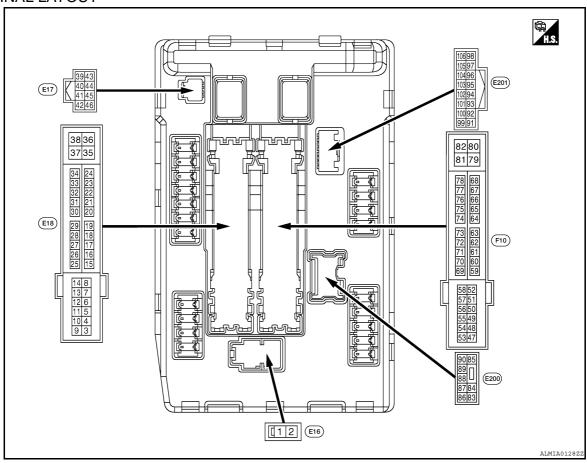
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## TERMINAL LAYOUT



### PHYSICAL VALUES

	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	
1 (R)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage	
2 (L)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage	
4	O	Frank win and O	0	Ignition	Front wiper switch OFF	0V	
(LG)	Ground	Front wiper LO	Output	switch ON	Front wiper switch LO	Battery voltage	
5	O	Frant win sa I II	0	Ignition	Front wiper switch OFF	0V	
(Y)	Ground	Front wiper HI	Output	switch ON	Front wiper switch HI	Battery voltage	
6 (SB)	Ground	Daytime light relay power supply (Canada models only)	Output	Ignition swi	itch OFF	Battery voltage	
7	Ground	Tail, license plate lamps &	Outrout	Ignition	Lighting switch OFF	0V	
(GR)	Ground	interior lamps	Output	switch ON	Lighting switch 1ST	Battery voltage	
10				Ignition switch OFF (For a few seconds after turning ignition switch OFF)		OV	
(BR)	Ground	ECM relay power supply	Output	(More the	switch ON switch OFF an a few seconds after turn- on switch OFF)	Battery voltage	

< ECU DIAGNOSIS >

	nal No.	Description			0 188	Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
12 (B)	Ground	Ground	_	Ignition swi	itch ON	0V
13					tely 1 second or more after ignition switch ON	OV
(SB)	Ground	Fuel pump power supply	Output		nately 1 second after turning on switch ON unning	Battery voltage
15		Ignition relay-1 power sup-		Ignition swi	<u> </u>	0V
(W)	Ground	ply	Output	Ignition swi	itch ON	Battery voltage
					Front wiper stop position	0V
16 (L/Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Any position other than front wiper stop position	Battery voltage
19		Ignition relay-1 power sup-		Ignition swi	itch OFF	0V
(Y)	Ground	ply	Output	Ignition swi	itch ON	Battery voltage
20 (B/Y)	Ground	Ambient sensor ground	_	Ignition swi	itch ON	0V
21 (O/B)	Ground	Ambient sensor		Ignition swi	itch ON	5V
22 (W/R)	Ground	Refrigerant pressure sensor ground	_	Ignition swi	itch ON	0V
23 (B/R)	Ground	Refrigerant pressure sensor	_	Both A/C	witch ON (READY) switch and blower motor N (electric compressor oper-	1.0 - 4.0V
24 (BR/W)	Ground	Refrigerant pressure sensor power supply	_	Ignition switch ON		5V
25	Ground	Ignition relay-1 power sup-	Output	Ignition switch OFF		0V
(GR)	Ground	ply	Output	Ignition switch ON		Battery voltage
27	Ground	Ignition rolay monitor	Input	Ignition switch OFF or ACC		Battery voltage
(W)	Ground	Ignition relay monitor	Input	Ignition swi	itch ON	0V
28	Ground	Push-button ignition	Input	Press the p	oush-button ignition switch	0V
(SB)	Ground	switch	Input	Release the	e push-button ignition switch	Battery voltage
30 (BR)	Ground	Starter relay control	Input	CVT mod-	CVT selector lever in any position other than P or N (ignition switch ON)	0V
()					CVT selector lever P or N (ignition switch ON)	Battery voltage
30	Ground	Starter relay control	Input	M/T mod-	Release the clutch pedal	0V
(R)	Stourid	Startor rolay control	прис	els	Depress the clutch pedal	Battery voltage
34	Ground	Cooling fan relay-3 control	Input	Ignition swi	tch OFF or ACC	0V
(O/L)	C. Garia	2.50g .sir rolay 0 boristor	pat	Ignition switch ON		0.7V
35	Ground	Cooling fan motor control	Output	_	itch OFF or ACC	0V
(P)	J. Garia	2.35g .ari motor control	Japan	Ignition swi	itch ON	0.7V
36 (G)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage
38	Ground	Cooling fan motor control	Output	Ignition swi	tch OFF or ACC	0V
(R/W)	Cibana	Seeming turn motor control	Catput	Ignition swi	itch ON	0.7V

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	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
39 (P)	_	CAN - L	Input/ Output		_	_
40 (L)	_	CAN - H	Input/ Output		_	_
41 (B)	Ground	Ground		Ignition swi	itch ON	0V
42	Ground	Cooling fan relay-2 control	Input	Ignition swi	itch OFF or ACC	0V
(SB)	Giodila	Cooling lan relay-2 control	Input	Ignition swi	itch ON	0.7V
					Press the CVT selector button (CVT selector lever P)	Battery voltage
43 (G/B)	Ground	CVT shift selector (Detention switch)	Input	Ignition switch ON	CVT selector lever in any position other than P     Release the CVT selector button (CVT selector lever P)	0V
44	0	Hama malass another	l-s-s-st	The horn is	deactivated	Battery voltage
(G/W)	Ground	Horn relay control	Input	The horn is	activated	0V
45	Cround	Anti that have valou control	lmm.ut	The horn is	deactivated	Battery voltage
(L/O)	Ground	Anti theft horn relay control	Input	The horn is activated		0V
		Starter relay control		CVT mod-	CVT selector lever in any position other than P or N (ignition switch ON)	0V
46 (BR)	Ground		Input		CVT selector lever P or N (ignition switch ON)	Battery voltage
				M/T mod-	Release the clutch pedal	0V
				els	Depress the clutch pedal	Battery voltage
					A/C switch OFF	0V
48 (W)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage
49		ECM relay power supply		Ignition swi (For a few s switch OFF	seconds after turning ignition	0V
(V)	Ground	(with VQ35DE)	Output			Battery voltage
51	Ground	Ignition relay power supply	Output	Ignition swi	itch OFF	0V
(SB)	Cround	.g.macri roldy power supply	Juipui	Ignition swi	itch ON	Battery voltage
52	Ground	Ignition relay power supply	Output	Ignition swi		0V
(Y)		3	- 1	Ignition swi		Battery voltage
53		ECM relay power supply		Ignition swi (For a few s switch OFF	seconds after turning ignition	OV
(G)	Ground	(with VQ35DE)	Output			Battery voltage

< ECU DIAGNOSIS >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
53		ECM relay power supply		Ignition swi (For a few s switch OFF	seconds after turning ignition	0V
(V)	Ground	(without VQ35DE)	Output	`		Battery voltage
<b>5</b> 4		The state of the land of the state of the st		Ignition swi (For a few s switch OFF	seconds after turning ignition	OV
54 (GR)	Ground	Throttle control motor re- lay power supply	Output			Battery voltage
55 (LG)	Ground	ECM power supply	Output	Ignition swi	itch OFF	Battery voltage
56	C	Ignition relations	O 4 4	Ignition swi	itch OFF	0V
(R)	Ground	Ignition relay power supply	Output	Ignition swi	itch ON	Battery voltage
57	Ground	Ignition relay power supply	0	Ignition swi	itch OFF	0V
(O)	Ground	ignition relay power supply	Output	Ignition swi	itch ON	Battery voltage
58	Cround	lanition roley newer aunnly	Output	Ignition switch OFF		0V
(BR)	Ground	Ignition relay power supply	Output	Ignition swi	itch ON	Battery voltage
69			Output	Ignition switch OFF (For a few seconds after turning ignition switch OFF)		Battery voltage
(SB)	Ground	ECM relay control				0 - 1.5V
70		Throttle control motor re-		Ignition swi	itch ON $\rightarrow$ OFF	0 -1.0V ↓ Battery voltage
(G)	Ground	lay control	Output			↓ 0V
				Ignition swi	itch ON	0 - 1.0V
					CVT selector lever in P or N position	Battery voltage
72 (BR)	Ground	Transmission range switch signal (with VQ35DE)	Input	Ignition switch ON	CVT selector lever in any position other than P or N position	OV
					CVT selector lever in P or N position	Battery voltage
72 (W)	Ground	Transmission range switch signal (with QR25DE)	Input	Ignition switch ON	CVT selector lever in any position other than P or N position	OV
74	Ground	Ignition relay power supply	Output	Ignition swi	itch OFF	0V
(L)	Ground	iginilori relay power suppry	Output	Ignition swi	itch ON	Battery voltage
75	Ground	Oil pressure switch	Innut	Ignition	Engine stopped	0V
(LG)	Giound	Oil pressure switch	Input	switch ON	Engine running	Battery voltage

**EXL-89** Revision: September 2009 2010 Altima

Terminal No. Description (Wire color)					Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)
				Ignition sw	itch ON	(V) 6 4 2 0 2 ms JPMIA0001GB
76 (GR)	Ground	Power generation command signal	Output		on "Active test", "ALTERNA- " of "ENGINE"	(V) 6 4 2 0 → 2ms JPMIA0002GB
					on "Active test", "ALTERNA- /" of "ENGINE"	(V) 6 4 2 0 → 2ms JPMIA0003GB
77	Ground	Fuel pump relay control	Output		nately 1 second after turning on switch ON unning	1.4V 0 - 1.0V
(GR)	Ground	Tuel pump relay control	Output	Approxima	tely 1 second or more after ignition switch ON	Battery voltage
80 (R)	Ground	Starter motor	Output	At engine of	cranking	Battery voltage
83 (R/Y)	Ground	Headlamp LO (RH)	Output	Ignition switch ON	Lighting switch OFF Lighting switch 2ND	0V Battery voltage
84 (L)	Ground	Headlamp LO (LH)	Output	Ignition switch ON	Lighting switch OFF Lighting switch 2ND	0V Battery voltage
86 (W/R)	Ground	Front fog lamp (RH)	Output	Lighting switch 2ND	Front fog lamp switch     ON     Daytime running light     activated (Only for Canada models)  Front fog lamp switch OFF	Battery voltage
87 (L/Y)	Ground	Front fog lamp (LH)	Output	Lighting switch 2ND	Front fog lamp switch ON     Daytime running light activated (Only for Canada models)	Battery voltage
00		Moches			Front fog lamp switch OFF	0V
88 (R/W)	Ground	Washer pump power sup- ply	Output	Ignition sw	itch ON	Battery voltage

### < ECU DIAGNOSIS >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
89 (L/W)	Ground	Headlamp HI (RH)		Ignition switch ON	Lighting switch HI     lighting switch PASS	Battery voltage
(L/VV)				SWILCH ON	Lighting switch OFF	0V
90 (G)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch HI     Lighting switch PASS	Battery voltage
(G)				SWITCH OIN	Lighting switch OFF	0V
91	Ground	Parking lamp (RH)	Output	Ignition	Lighting switch 1ST	Battery voltage
(LG/R)	Ground	Faiking lamp (IXII)	Output	switch ON	Lighting switch OFF	0V
92	Ground	Parking lamp (LH)	Output	Ignition	Lighting switch 1ST	Battery voltage
(LG/B)	Giodila	Faiking lamp (Lin)	Output	switch ON	Lighting switch OFF	OV
99 (BR/W)	Ground	Ambient sensor ground	_	Ignition switch ON		0V
100 (SB)	Ground	Ambient sensor	_	Ignition swi	itch ON	5V
101 (O/L)	Ground	Refrigerant pressure sensor ground	_	Ignition swi	itch ON	0V
102 (R/B)	Ground	Refrigerant pressure sensor	_	Ignition switch ON (READY)     Both A/C switch and blower motor switch ON (electric compressor operates)		1.0 - 4.0V
103 (P)	Ground	Refrigerant pressure sensor power supply	_	Ignition switch ON		5V
105	Ground	Daytime light relay control	Output	Ignition switch ON	Daytime light system active	Battery voltage
(V)	Giodila	Dayume light relay control	Output	Ignition switch ON	Daytime light system inactive	0V

Fail Safe INFOID:0000000005781253

### CAN COMMUNICATION CONTROL

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

### If No CAN Communication Is Available With ECM

Control part	Fail-safe in operation
Cooling fan	<ul> <li>Signals cooling fans ON when the ignition switch is turned ON</li> <li>Signals cooling fans OFF when the ignition switch is turned OFF</li> </ul>
A/C compressor	A/C relay OFF
Generator	Outputs the power generation command signal (PWM signal) 0%

### If No CAN Communication Is Available With BCM

Control part	Fail-safe in operation
Headlamp	<ul> <li>Turns ON the headlamp low relay when the ignition switch is turned ON</li> <li>Turns OFF the headlamp low relay when the ignition switch is turned OFF</li> <li>Headlamp high relay OFF</li> </ul>
<ul><li>Parking lamps</li><li>License plate lamps</li><li>Illumination</li><li>Tail lamps</li></ul>	Turns ON the tail lamp relay when the ignition switch is turned ON Turns OFF the tail lamp relay when the ignition switch is turned OFF

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### < ECU DIAGNOSIS >

Control part	Fail-safe in operation
Front wiper	<ul> <li>The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed.</li> <li>The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.</li> </ul>
Front fog lamps (if equipped)	Front fog lamp relay OFF
Horn	Horn OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF

### IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay inside it.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

DTC	Ignition switch	Ignition relay	Tail lamp relay
_	ON	ON	_
_	OFF	OFF	_
B2098: IGN RELAY ON	OFF	ON	ON (10 minutes)
B2099: IGN RELAY OFF	ON	OFF	_

### NOTE:

The tail lamp turns OFF when the ignition switch is turned ON.

### FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper auto stop signal.

When a front wiper auto stop signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 second activation and 20 second stop five times.

Ignition switch	Front wiper switch	Auto stop signal
ON	OFF	Front wiper stop position signal cannot be input 10 seconds.
	ON	The signal does not change for 10 seconds.

### NOTE:

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

### STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

DTC Index

CONSULT-III display	Fail-safe	TIME	NOTE	Refer to
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	1 – 39	PCS-20
B2098: IGN RELAY ON	×	CRNT	1 – 39	PCS-21
B2099: IGN RELAY OFF	_	CRNT	1 – 39	PCS-22
B210B: START CONT RLY ON	_	CRNT	1 – 39	<u>SEC-37</u>
B210C: START CONT RLY OFF	_	CRNT	1 – 39	SEC-38

### < ECU DIAGNOSIS >

CONSULT-III display	Fail-safe	TIME	NOTE	Refer to
B210D: STARTER RELAY ON	_	CRNT	1 – 39	<u>SEC-39</u>
B210E: STARTER RELAY OFF	_	CRNT	1 – 39	SEC-40
B210F: INTRLCK/TRANSMISSION RANGE SW ON	_	CRNT	1 – 39	<u>SEC-43</u>
B2110: INTRLCK/TRANSMISSION RANGE SW OFF	_	CRNT	1 – 39	<u>SEC-48</u>

### NOTE:

The details of TIME display are as follows.

- CRNT: The malfunctions that are detected now
- 1 39: The number is indicated when it is normal at present and a malfunction was detected in the past. It increases like 0 → 1 → 2 ··· 38 → 39 after returning to the normal condition whenever IGN OFF → ON. It is fixed to 39 until the self-diagnosis results are erased if it is over 39. It returns to 0 when a malfunction is detected again in the process.

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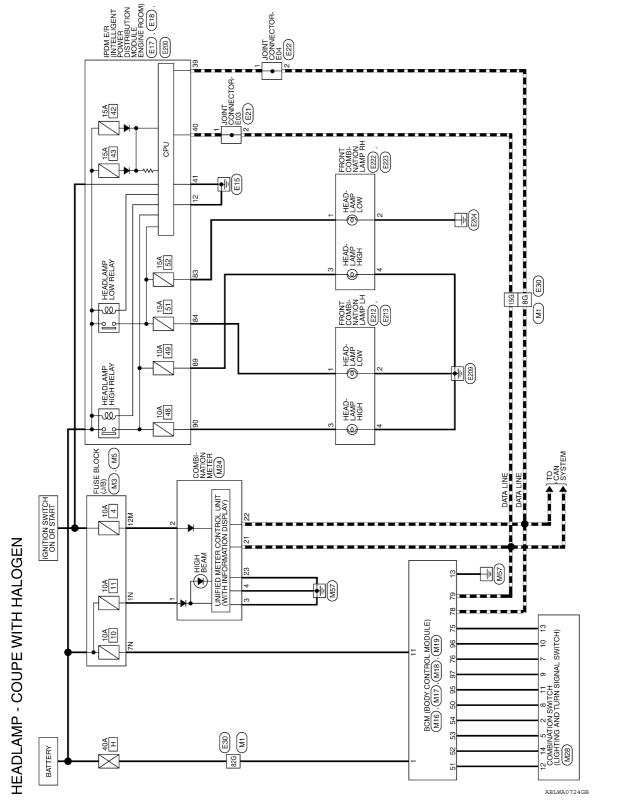
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# WIRING DIAGRAM

**HEADLAMP (HALOGEN)** 

**COUPE** 

COUPE: Wiring Diagram



# HEADLAMP CONNECTORS - COUPE WITH HALOGEN

Wire W/B	Connector No.	M1	Terminal	Color of	Signal Name	Connector No. M3	
SC   WHITE   15G   L	nector Name	WIRE	ומוווו	Wire	Signal Name	Connector Name FUSE	BLOCK (J/B)
15G	nector Color	MHIT	8G	Ь	1	Connector Color WHIT	() ()
So   So   To   So   So   Ac   So   So   Ac   So   So   Ac   So   So   So   So   So   So   So   S			15G	_	1		ı
SS   SS   SS   SS   SS   SS   SS   S			82G	M/B	1		
Terminal No. Color of 10 Wire 10 W/L 70 Y/R	<b>6</b>	76 66 56 46 36 146 136 126 116 106 26 246 236 226 216 206				S   S	지 [돐 []
IN W/L	346	336 326 316 306 296 286 276 196 186 416 406 396 396 376 366 356	Г			Terminal No. Wire	Signal Name
IN Y/R	200						1
6556   6256   6156   6056   5366   5360		580 576 560 550					ı
725  715  705  685  6875  685  6845	636	626 616 606 596 546 536 526 516					
826	800	726 716 706 696 686 676 666 796 786 776 766 756 746 736 656 646					
		826					

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

Connector Name BCM (BODY CONTROL MODULE)

M16

Connector No.

Connector Name FUSE BLOCK (J/B)

M5

Connector No.

Connector Color WHITE

BLACK

Connector Color



11 12 13 14 15 16 17 18 19	Signal Name	BAT_BCM_FUSE	GND1
12 13 14	Color of Wire	Y/R	В
H.S.	Terminal No.	11	13

Signal Name	BAT_POWER_F/	
Color of Wire	W/B	
al No.		

	BA.	
Color of Wire	M/B	
erminal No.	1	

Color of Wire	W/B	
Terminal No.	1	

Signal Name	I	
Color of Wire	0	
Terminal No.	12M	

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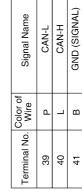
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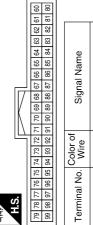
Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L
Color of Wire	T/M	0	В	В	٦	Д
Serminal No. Wire	1	2	က	4	21	22







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



Signal Name	OUTPUT 5	OUTPUT 3	CAN-L	CAN-H	OUTPUT 1	OUTPUT 4	OUTPUT 2
Color of Wire	R/Y	B/G	Ь	7	R/W	P/B	R/B
Terminal No.	75	9/	82	62	96	96	97

Signal Name	OUTPUT 4	OUTPUT 3	INPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
Color of Wire	G/Y	LG/R	B/G	LG/B	B/B	P/B	B/W	MΠ	R/Y	G/B
Terminal No.	2	5	7	8	6	10	11	12	13	14

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



Signal Name	INPUT 5	INPUT 1	INPUT 2	INPUT 3	INPUT 4
Color of Wire	LG/B	Γ/M	G/B	LG/R	G/Y
Terminal No.	50	51	52	53	54

Connector No	_ ا	2	MOR	١					
		<u>-</u>	į						
Connector Name COMBINATION SWITCH	삘	0	õ	AB	l≥	F	ō	S	WITCH
		4					1		
Connector Color   WHITE	ğ	>_	Ξ	Ë					
		Ŀ		11	11/	ΙГ	_		
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SH	-	7					2	9	
	7	8	6	8 9 10 11 12 13 14	=	12	13	7	



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Signal Name	В
WHITE Signal in the signal in	С
No. E21  Nome JOINT G  Color of L  L  L  L  L  L  L  L  L  L  L  L  L	D
Connector No.   E21	Е
	F
Color of Wire Signal Name  B GND (POWER)  Wire GND (POWER)  GND (POWER)  GND (POWER)  WHITE GND (POWER)  SND	G
Color of Wire Signal Name  B GND (POWER)  E30  me WIRE TO WIRE  for WHITE  16 26 106 116 126 136 146 156 166 176  16 26 106 116 126 136 146 156 166 176  16 26 106 116 126 136 146 156 166 176  17 26 27 286 286 376 386 389 406 476 486 496 506  18 16 286 576 886 876 886  18 16 286 576 886 876 886  18 16 286 576 886 876 886  18 16 886 676 886 876 876 886  18 17 8 886 876 886 876 886  18 18 886 876 886 876 886  18 18 886 876 886 876 886  18 18 886 876 886 876 886  18 18 886 876 886 876 876 886  18 18 886 876 886 876 876 886  18 18 886 876 886 876 876 886  18 18 886 876 886 876 876 876 876 886  18 18 886 876 886 876 876 876 876 876 876 87	Н
12   B   GND (P   Signal   No. Wire   Signal	I
Terminal No. Color Connector No. Connector No. Connector Name Connector Name Connector Color 16 16 16 16 16 16 16 16 16 16 16 16 16	J
ENT   OOM	K
E18 POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE  50 of 6 Signal Name 16 Signal Name 17 8 Signal Name 18 12 1 10 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EXL
E =	M
Connector No. E18  Connector Name POWEF MODUL  Connector Color WHITE  S 4 5 6 7 8  H.S.  Connector Name JOINT  Connector Name JOINT  Connector Color of  Terminal No. Wire  1 P  2 P  1 P  2 P	N
Connector No.  Connector No.  Connector No.  Connector No.  Connector No.  Connector No.  Terminal No. Ww.  1  1  1  1  1  1  1  1  1  1  1  1  1	0
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Revision: September 2009 EXL-97 2010 Altima

Connector No.	E213
Connector Name	Connector Name FRONT COMBINATION LAMP LH
Connector Color BLACK	BLACK

Signal Name	ІН НТ Т/Н	UNE
Solor of Wire	G	а



GND	В	4
H/L LH I	9	3
Signal Na	Color of Wire	Terminal No.

Connector No.	E212
Connector Name	Connector Name LAMP LH (WITHOUT XENON HEADLAMP SYSTEM)
Connector Color BLACK	BLACK



Color of Wire	٦	В	
Terminal No.	1	2	

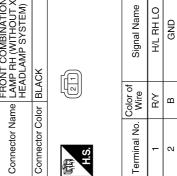
Signal Name H/L LH LO

GND

Connector	Connector (	所.S.

Connector No.	). E200	0
Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	olor WHITE	ТЕ
H.S.	88 88	88 87 86 88 87 86
Terminal No.	Color of Wire	Signal Name
83	R/Υ	HEADLAMP_LO_RH
84	٦	HEADLAMP_LO_LH
68	M٦	HEADLAMP_HI_RH
06	უ	HEADLAMP HI LH

Connector No.	E223
Connector Name	Connector Name LAMP RH (WITHOUT XENON HEADLAMP SYSTEM)
Connector Color   BLACK	BLACK



Signal Name	H/L RH HI	GND	
Color of Wire	L/W	В	
Terminal No.	3	4	

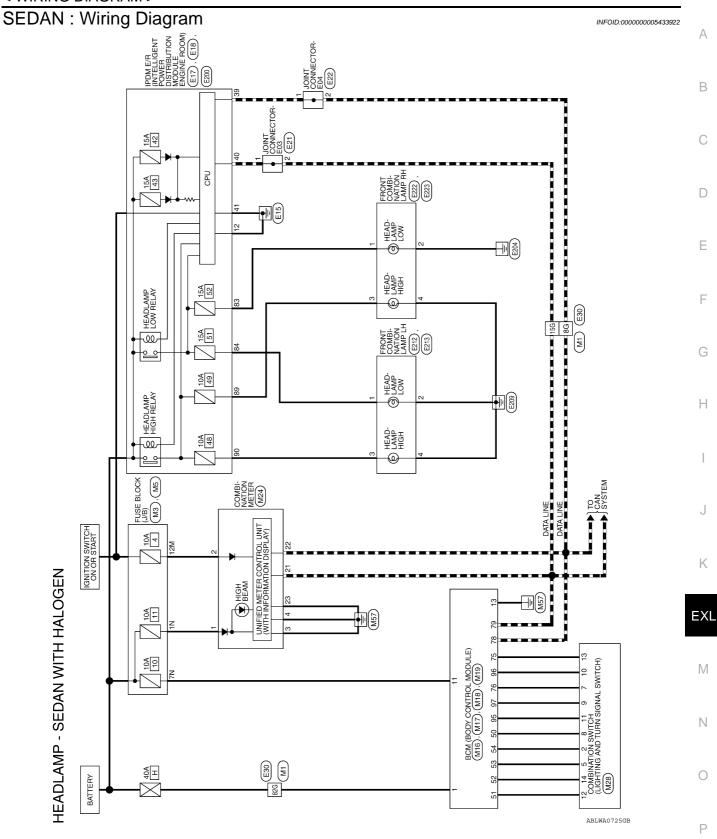
	_	
ГH	3	I)
Ц	[4	IJ
`	_	



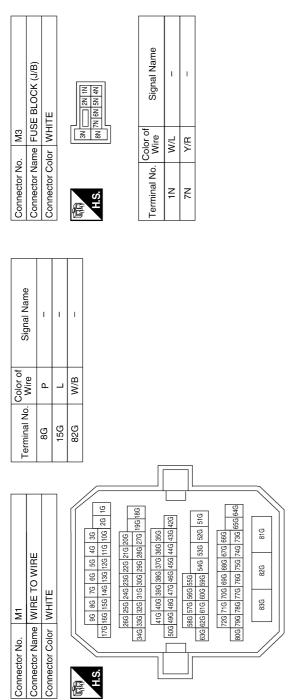
Connector No.



# **SEDAN**



# HEADLAMP CONNECTORS - SEDAN WITH HALOGEN



Connector No.	M5	Connector No.	). M16		Connector No.	No. M17	4
Connector Name FUS	Connector Name FUSE BLOCK (J/B)	Connector Na	ame BCN MOI	Connector Name BCM (BODY CONTROL MODULE)	Connector	Name BCI MO	Connector Name BCM (BODY CONTROL MODULE)
	A	Connector Color BLACK	olor BLA	CK	Connector Color WHITE	Color WH	IITE
H.S.		H.S.		[E a]	明.S.H.S.	11 12 13 14	1 12 13 14 15 16 17 18 19
Terminal No. Wire	or of Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
12M	- 0	-	W/B	BAT_POWER_F/L	Ξ	Y/R	BAT_BCM_FUSE

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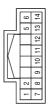
	20															
M24 COMBINATION METER WHITE	9 10 11 12 13 14 15 16 17 18 19 20 29 30 31 32 33 34 35 36 37 38 39 40	Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)		IPDM E/R (INTELLIGENT	MODULE ENGINE ROOM)	L	<u>"</u>	Γ	42 41 40 39
me CON	6 7 8 \$ 28 27 28 2	Color of Wire	M/L	0	В	В	L	Ь	В	. E17				IOF WHILE		1 64
Connector No. M24 Connector Name COMBII Connector Color WHITE	H.S. 1 2 3 4 5 5 2 1 2 2 23 24 25 25 24 25 25 24 25 25 24 25 25 24 25 25 24 25 25 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Terminal No.	-	2	3	4	21	22	23	Connector No.	Connector Name		20000000	Connector Color		NAME OF THE PERSON OF THE PERS
	[ब्राब्र]															
M19 BCM (BODY CONTROL MODULE) BLACK	70 68 68 67 66 65 64 63 62 61 60 90 89 88 87 86 85 84 88 82 81 80	Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2	Signal Name	) H	001F01_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2
	74 73 72 71 94 93 92 91	Color of Wire	Ρ/Υ	B/G	۵	٦	B/W	P/B	B/B	Color of	A S	- ! 5 !	LG/R	R/G	LG/B	B/B
Connector No. Connector Name Connector Color	H.S.  73 77 77 75 75 75 75 75 75 75 75 75 75 75	Terminal No.	75	92	78	62	95	96	26	Terminal No.		y I	2	7	8	6
M18 BCM (BODY CONTROL MODULE) GREEN	31 30 29 28 27 26 25 24 23 22 21 20 5 5 15 50 49 48 47 46 43 42 41 40	Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4				Connector Name COMBINATION SWITCH				5	8 9 10 11 12 13 14
-	34 33 32 31	Color of Wire	LG/B	LW	G/B	LG/R	G/Y			. M28	me COM	lor WHI	-		1 2	7 8 9
Connector No. Connector Name Connector Color	H.S. 38 37 38 38 34 33 32 38 38 37 38 38 38 38 38 38 38 38 38 38 38 38 38	Terminal No.	20	51	52	53	54			Connector No.	Connector Na	Connector Color WHITE			Ų.	TEST.

Signal Name	CAN-L	H-NYO	GND (SIGNAL)
Color of Wire	Ь	Г	В
minal No.	39	40	41

			0
Color of Wire	Д	7	В
Terminal No.	39	40	41

Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2	
Wire	G/Y	LG/R	B/G	LG/B	B/B	B/B	R/W	M	R/Y	G/B	
Terminal No.	2	5	7	8	6	10	11	12	13	14	

	9	4	1
$\Box$	2	13	
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$\mathbb{I}$		10	
$\Pi \setminus$		6	
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	1	7	
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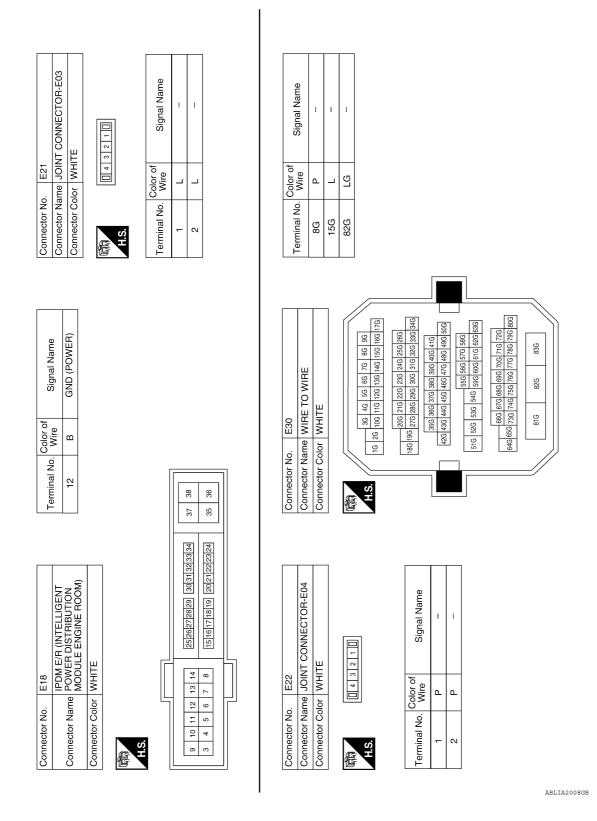
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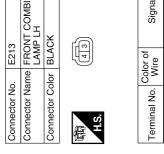
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Revision: September 2009 EXL-102 2010 Altima

E213	nector Name FRONT COMBINATION LAMP LH	BLACK	
E	μΥ	뮵	
nector No.	nector Name	nector Color BLACK	

	Signal Name	н/г гн ні	
4	Color of Wire	9	٥
	l No.		



2	FRONT COMBINATION LAMP LH (WITHOUT X HEADLAMP SYSTEM)	CK	F)	Signal Name	ОТ НТ Т/Н	
E212		or BLACK		Color of Wire	Т	
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1	

Connector No.		0
Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	lor WHITE	TE
H.S.	98 88	88 67 88
Terminal No.	Color of Wire	Signal Name
83	Ρ/Υ	HEADLAMP_LO_RH
84	٦	HEADLAMP_LO_LH
68	L/W	HEADLAMP_HI_RH
06	ŋ	HEADLAMP_HI_LH

Connector No.	). E223	3
Connector Name	rme LAN HEA	FRONT COMBINATION LAMP RH (WITHOUT XENON HEADLAMP SYSTEM)
Connector Color BLACK	olor BLA	Ç
(中) H.S.		
Terminal No.	Color of Wire	Signal Name
-	R/Υ	H/L RH LO
c	ב	

Connector No.	). E222	5
Connector Na	ame LAN DAY	Connector Name LAMP RH (WITHOUT DAYTIME LIGHT SYSTEM)
Connector Color BLACK	olor BLA	CK
H.S.	<u> </u>	F)
Terminal No.	Color of Wire	Signal Name
8	ΓW	H/L RH HI
4	<u>د</u>	GNB

Signal Name	H/L RH HI	GND	
Color of Wire	MΠ	В	
nal No.	e e	4	

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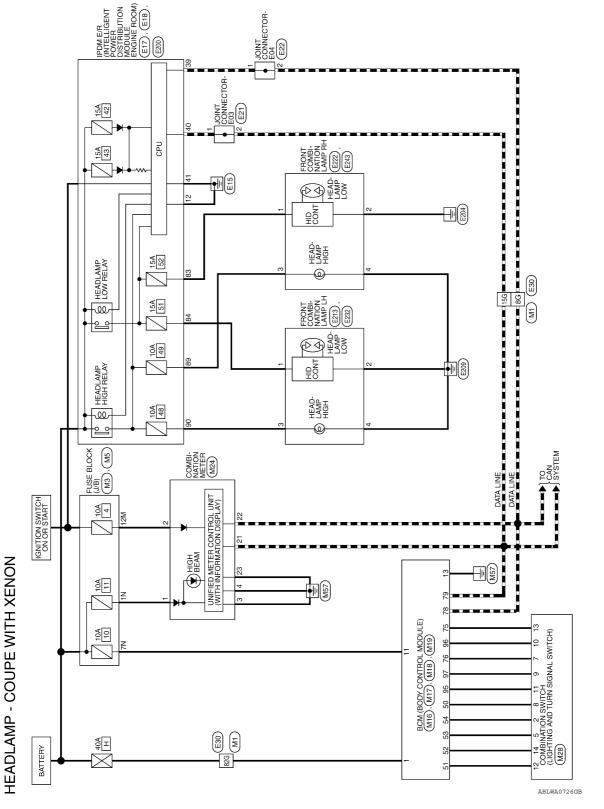
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# **HEADLAMP (XENON)**

**COUPE** 

COUPE: Wiring Diagram

INFOID:0000000005433923



# **HEADLAMP CONNECTORS - COUPE WITH XENON**

	T							
Connector No. M3 Connector Name FUSE BLOCK (J/B)	TE TE	J.		7N 6N 5N 4N	Signal Name	ı	I	
. M3	MH Z			No 18	Color of Wire	M/L	Y/R	
Connector No.	Connector Color WHITE			H.S.	Terminal No.	Z.	N2	
				1				
Signal Name	1	1	1					
Color of Wire	<u>a</u>	_	M/B					
Terminal No. Wire	8G	15G	82G					
		_						
Connector No. M1				H.S. 176 186 176 186 186 146 38 176 186 16 186 186 18	134G   33G   33G   33G   23G   23G	50G 49G 48G 47G 46G 45G 44G 43G 42G	586 576 566 556	

	M17	Connector Name BCM (BODY CONTROL MODULE)
	Connector No.   M17	Connector Name
	M16	connector Name   BCM (BODY CONTROL MODULE)
	Connector No.   M16	Connector Name

Connector Color WHITE

	Connector Name   BCM (BODY CONTROL MODULE)	4CK	113	Signal Name
. M16	me BCN MO	lor BLA		Color of Wire
Connector No.	Connector Na	Connector Color BLACK	所 H.S.	Terminal No. Wire

Connector No.	M5
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	WHITE
5M 4M H.S.	8M 4M

Signal Name	1	
Color of Wire	0	
Terminal No.	12M	

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Signal Name	BAT_BCM_FUSE	GND1	
Color of Wire	Y/R	В	
ninal No.	11	13	

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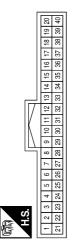
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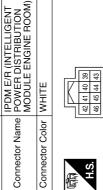


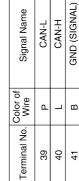


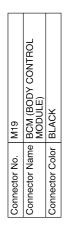
Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)
Color of Wire	M/L	0	В	В	٦	Д	В
Terminal No.	-	2	က	4	21	22	23

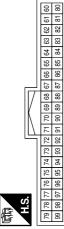


Connector Name







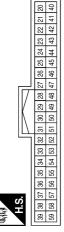


Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2
Color of Wire	R/Y	B/G	Ь	Т	R/W	P/B	R/B
Terminal No.	75	9/	78	26	92	96	97

Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2
Color of Wire	R/Y	B/G	Ь	٦	B/W	P/B	B/B
Terminal No.	75	9/	78	6/	92	96	97

Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2
Color of Wire	G/Y	LG/R	B/G	LG/B	B/B	P/B	B/W	MΠ	R/Y	G/B
Terminal No.	2	5	7	8	6	10	11	12	13	14

Connector No. M18	Connector Name BCM (BODY CONTROL MODULE)	Connector Color GREEN	
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	Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4
	Color of Wire	LG/B	Γ/M	G/B	LG/R	G/Y
	Terminal No.	50	51	52	53	54

	_		_	1
		9	14	l
		5	13	l
			12	l
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lΨ	$        \rangle$		8 9 10 11 12 13 14	l
>		2	8	l
ō		1	7	l
Connector Color WHITE		SH		J

Connector Name COMBINATION SWITCH

M28

Connector No.



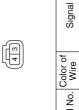
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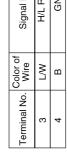
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Signal Name	В
Mire P P P P P P P P P P P P P P P P P P P	D
Connector Nari Connector Nari Connector Cold	Е
	F
Signal Name ND (POWER)  ND (POWER)  VIRE  130 14d 15d 16d 17d  130 31d 22d 22d 22d 22d 22d 22d 22d 22d 22d 2	G
0   0   0   0   0   0   0   0   0   0	Н
12   B   GND (P   Signal   S	I
Terminal No. Oconnector No. Connector No. Connector Nam Connector Cole	J
PENT SON (NON) (NO	K
R (INTELLIG 3 DISTRIBUTI 15 Helit/Helit Signal Nar	EXL
20 E18 MODUL FILE 13 14 E22 Mire JOINT COlor of WHITE POWER Wire P P P P P P P P P P P P P P P P P P P	N
Connector No. E18  Connector Name MODUL  Connector Color WHITE  3 4 5 6 7 8  Connector No. E22  Connector Name JOINT  Connector Color of White  1 P  2 P  2 P	0
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Revision: September 2009 EXL-107 2010 Altima

Connector No.	E222
Connector Name	Connector Name LAMP RH (WITHOUT DAYTIME LIGHT SYSTEM)
Connector Color BLACK	BLACK

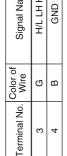


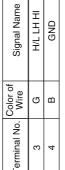


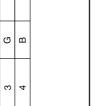


E213	Connector Name   FRONT COMBINATION   LAMP LH	BLACK	
Connector No.	Connector Name	Connector Color BLACK	















Connector No.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Color WHITE	WHITE







Signal Name	HEADLAMP_LO_RH	HEADLAMP_LO_LH	HEADLAMP_HI_RH	HEADLAMP_HI_LH
Color of Wire	R/Υ	Γ	N/I	В
Terminal No.	83	84	68	06

Connector No. E232 Connector Name LAMP HEADI	Connector No. E232  FRONT COMBINATION Connector Name LAMP LH (WITH XENON HEADLAMP SYSTEM) Connector Color GRAY
	5

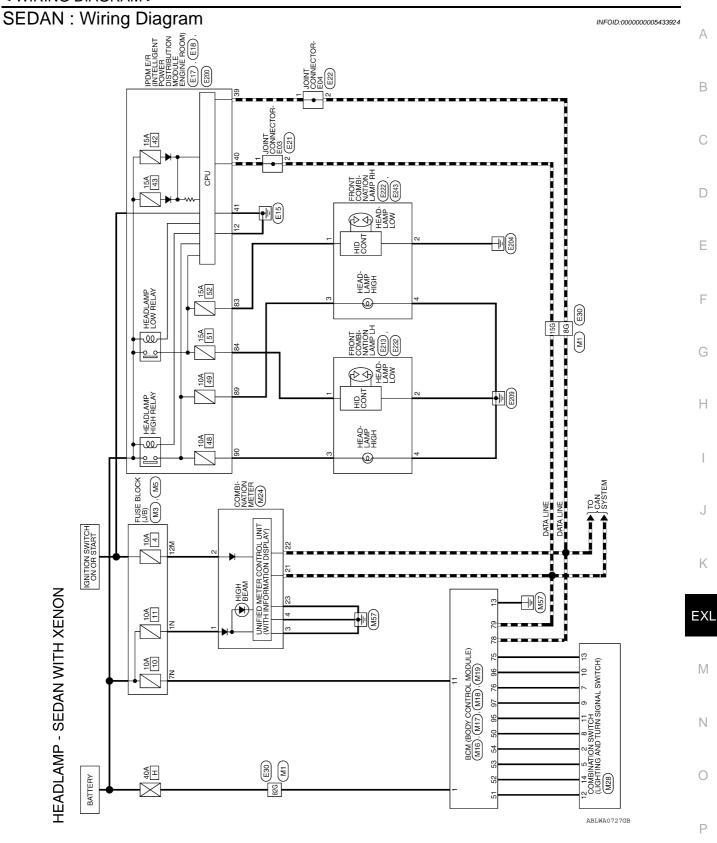




Signal Name	H/L LH LO	GND	
Color of Wire	Г	В	
Terminal No.	1	2	

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# **SEDAN**



## **HEADLAMP CONNECTORS - SEDAN WITH XENON**

Connector No. M3 Connector Name FLISE BLOCK (J/B)	Connector Color WHITE	_		H.S. (8N 7N 6N 5N 4N	Terminal No. Wire Signal Name	1N W/L –	7N Y/R –				
Signal Name	ı	1	1								
Color of Wire	۵	_	M/B								
Terminal No. Wire	8G	15G	82G								
Connector No. M1 Connector Name WIRE TO WIRE	:  ∃  }			H.S. 1776 166 176 166 156 146 36 176 166 156 146 106 26 16	34G   32G   31G   30G   23G   23G   27G   190   100	506 496 486 476 466 456 446 436 426	580 576 560 550	636 616 606 596 546 536 526 516	726 716 706 696 686 676 666	80G 79G 77G 77G 76G 75G 74G 73G 65G 64G	83G 81G

Connector No.   M5	). M5		Connector No. M16	o. M16		Connector No. M17	o. M17	
ector Na	ıme FUS	Connector Name FUSE BLOCK (J/B)	Connector Na	ame BCN	Connector Name BCM (BODY CONTROL	Connector Na	ame BCN	Connector Name BCM (BODY CONTROL
Connector Color WHIT	lor WH	=======================================		MO	JULE)		MOL	JULE)
			Connector Color BLACK	olor BLA	CK	Connector Color WHITE	olor WHI	TE
H.S.	5M 4M 12M 11M 10M 91	3M 2M 1M   1M   1M   1M   1M   1M   1M	H.S.			H.S.	1 12 13 14	1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 0
Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
12M	0	1	-	M/B	BAT_POWER_F/L	=	11 Y/R	BAT_BCM_FUSE

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		19 20 39 40																		_		
M24 COMBINATION METER WHITE		8 9 10 11 12 13 14 15 16 17 18 19 20 28 29 30 31 32 33 34 35 36 37 38 39 40	Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)			IPDM E/R (INTELLIGENT POWER DISTRIBUTION	MODULE ENGINE ROOM)	<u> </u>	[7	887	46 45 44 43			Signal Name	CAN-L
		6 7 8 26 27 28	Color of Wire	W/L	0	В	В	Γ	Д	В				_	olor WHITE		42 41 40	46 46		0000	Wire	۵
Connector No. Connector Color	所 H.S.	1 2 3 4 5 21 22 23 24 25	Terminal No.	-	2	က	4	21	22	23		Connector No.	Connector Name		Connector Color		至可	N.			Terminal No.	39
		61 60 81 80																				
M19 BCM (BODY CONTROL MODULE) BLACK		67 66 65 64 63 62 87 86 85 84 83 82	Signal Name	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2		Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2
	<u>[</u>	76 75 74 73 72 71 96 95 94 93 92 91	Color of Wire	Ργ	B/G	۵	Г	B/W	P/B	B/B	-	Color of	2 2 3 3 3 3 3 3 3	LG/R	B/G	LG/B	R/B	P/B	B/W	N/	R/Y	G/B
Connector No. Connector Name	高 H.S.	79 78 77 76 75 74 73 72 71 70 69 68 99 98 97 96 95 94 93 92 91 90 89 88	Terminal No.	75	9/	78	79	98	96	62		Terminal No.	2	5	2	8	6	10	11	12	13	14
M18 BCM (BODY CONTROL MODULE) GREEN		31 30 29 88 27 26 25 24 23 22 21 20 51 50 49 48 47 46 45 44 43 42 41 40	Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4					Connector Name COMBINATION SWITCH			2 0	0 11 12 13 14					
	<u>[</u> ]	34 33 32 31 54 53 52 51	Color of Wire	LG/B	N/	G/B	LG/R	G/Y				. M28	me COMBI			1 2	7 8 9 10					
Connector No. Connector Name	原 H.S.	39 38 37 36 35 34 33 32 59 58 57 56 55 54 53 52	Terminal No.	50	51	52	53	54				Connector No.	Connector Name			V I						

GND (SIGNAL) Signal Name CAN-H CAN-L Wire Ф В 39 4

Terminal No.

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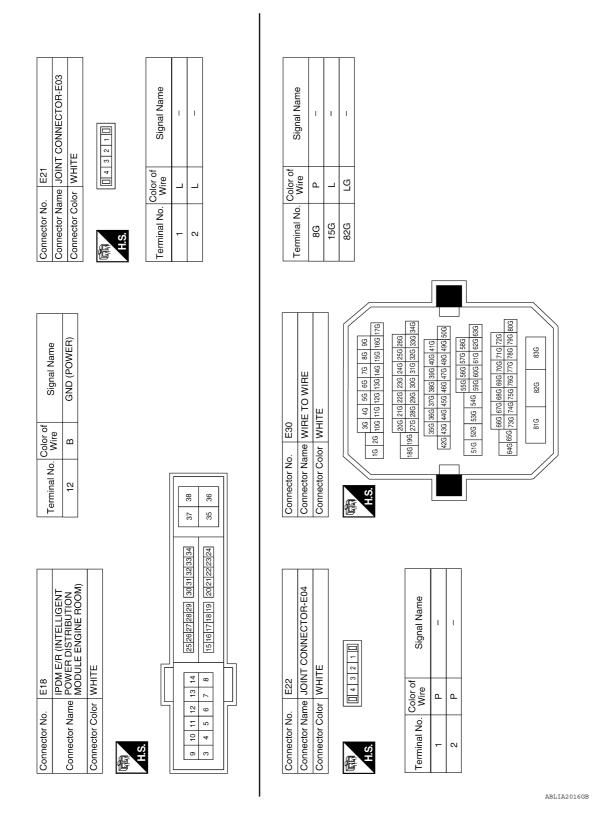
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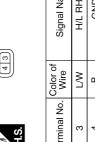
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E222	Connector Name LAMP RH (WITHOUT DAYTIME LIGHT SYSTEM)	ACK
Connector No.	Connector Name L	Connector Color BLACK

Signal Name	H/L RH HI	GND
olor of Wire	N/	В











Signal Name	H/L RH LO	GND
Color of Wire	R/Υ	В
Terminal No.	-	2

Signal Name H/L LH LO GND

Color of Wire

Terminal No.

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E213	Connector Name   FRONT COMBINATION   LAMP LH	BLACK	
Connector No.	Connector Name	Connector Color BLACK	



Terminal No.	Color o Wire	9	В	
		3	4	

Signal Name

H/L LH HI

GND

Connector No.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Color WHITE	WHITE
	85 84 83







Signal Name	HEADLAMP_LO_RH	HEADLAMP_LO_LH	HEADLAMP_HI_RH	HEADLAMP_HI_LH
Color of Wire	R/Y	٦	L/W	В
Terminal No. Wire	83	84	68	06

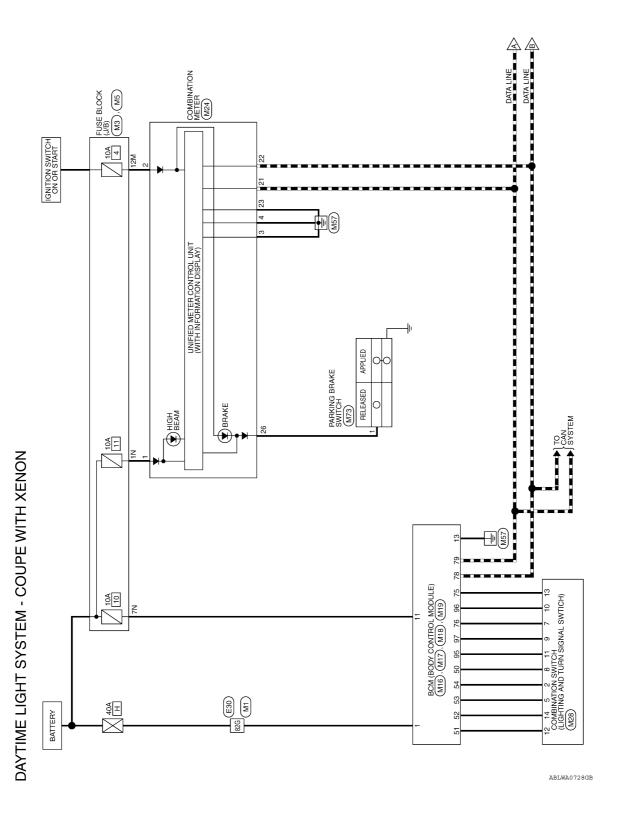


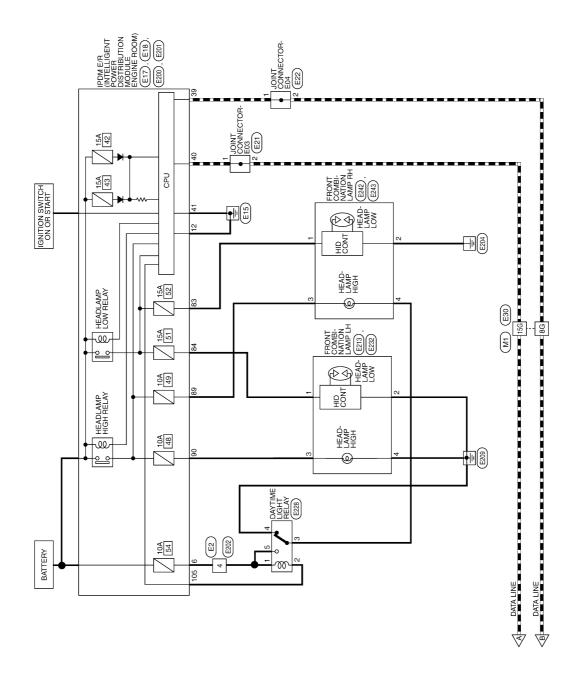
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### DAYTIME LIGHT SYSTEM - XENON

COUPE

COUPE: Wiring Diagram





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## DAYTIME LIGHT SYSTEM CONNECTORS - COUPE WITH XENON

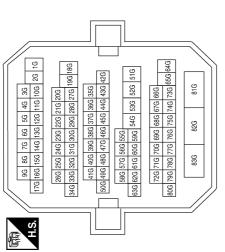
Connector Name WIRE TO WIRE

Connector No.

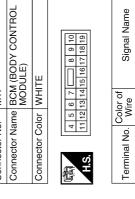
Connector Color | WHITE

	FUSE BLOCK (J/B)	ITE		Signal Name	-	-
. M3	me FUS	lor WH	NE NB	Color of Wire	M/L	Y/R
Connector No.	Connector Name	Connector Color WHITE	所 H.S.	Terminal No.	Z.	NZ
	•					

Signal Name	1	-	I	
Color of Wire	Ь	٦	M/B	
Terminal No. Wire	8G	15G	82G	





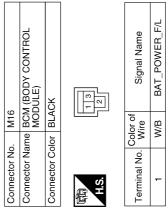


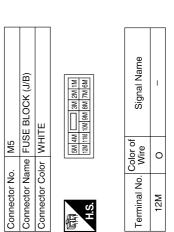
BAT\_BCM\_FUSE

Ϋ́R В

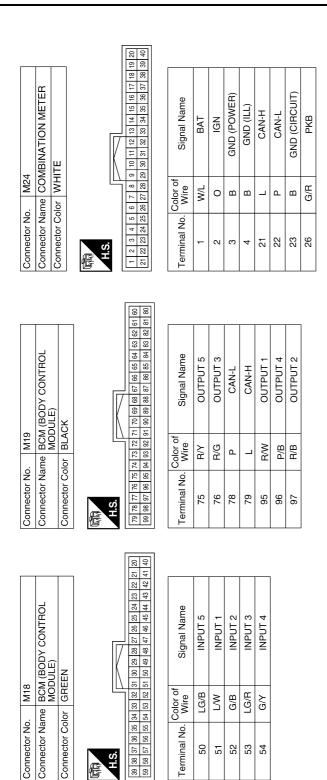
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	Connector Name PARKING BRAKE SWITCH (WITH M/T)	CK	-	Signal Name	-
. M73	me PAF (WI	lor BLA		Color of Wire	G/R
Connector No.	Connector Na	Connector Color BLACK	向 H.S.	Terminal No.	

					_			_		_
Signal Name	OUTPUT 4	OUTPUT 3	INPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
Color of Wire	G/Y	LG/R	R/G	LG/B	B/B	P/B	B/W	N/I	R/Y	G/B
Terminal No.	2	5	7	80	6	10	11	12	13	14

Connector No. M28 Connector Name COMBII	Connector No. M28 Connector Name COMBINATION SWITCH Connector Color WHITE
H.S.	8 9 10 11 12 13 14

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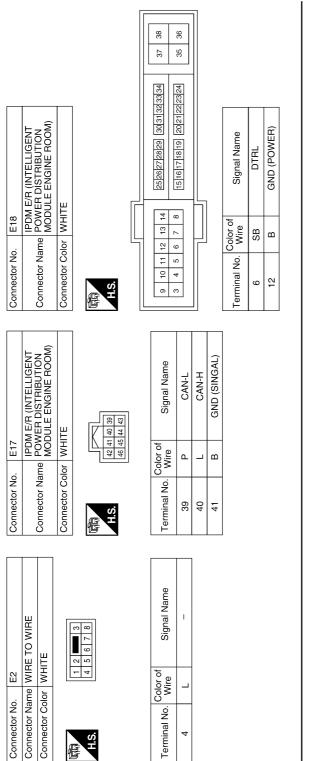
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	Connector Name JOINT CONNECTOR-E04	TE	3 2 1 0	Signal Name	I	I
E22	ne JOII	or WH	4	Solor of Wire	Ь	Ь
Connector No.	Connector Nar	Connector Color WHITE	可 H.S.	Terminal No. Wire	-	2
	Connector Name JOINT CONNECTOR-E03	TE	3 2 1 0	Signal Name	I	I
E21	ne JOII	or WHI	4	Color of Wire	Т	_
Connector No.	Connector Nar	Connector Color WHITE	原 H.S.	Terminal No. Wire	1	2

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### **DAYTIME LIGHT SYSTEM - XENON**

### < WIRING DIAGRAM >

Connector No. E200	Connector Name POWER DISTRIBUTION		Connector Color WHITE	85   84   83   84   83   84   85   84   85   85   85   85   85	311	Terminal No. Wire Signal Name	83 R/Y HEADLAMP_LO_RH	84 L HEADLAMP_LO_LH	89 L/W HEADLAMP_HI_RH	90 G HEADLAMP_HI_LH			Connector No. E213	Connector Name FRONT COMBINATION LAMP LH	Connector Color BLACK		H.S.		Terminal No. Vire Signal Name	3 G H/LLH HI	4 B GND		
Signal Name	ļ	ı	1											E TO WIRE	1	2 1	1 IO		Signal Name	I			
Color of Wire	2 4	_	LG										E202	ne WIRE T		3	8 2 4 5 5 6 5 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6		Color of Wire	SB			
Terminal No.	86	15G	82G										Connector No.	Connector Name WIRE TO WIRE		恒	H.S.		Terminal No.	4			
		7	//		Ге	<u> </u>								T		_		[					
	WIRE TO WIRE			36 46 56 66 76 86 96 106 116 126 136 146 156 166 176	18G 19G 27G 22G 23G 24G 25G 26G	35G 36G 37G 38G 39G 40G 41G	42G 43G 44G 45G 46G 47G 48G 49G 50G		G 53G 54G 59G 60G 61G 62G 63G	66G 67G 68G 69G 70G 71G 72G	64G   85G   73G   74G   75G   76G   77G   78G   79G   80G	816 826 836		IPDM E/R (INTELLIGENT POWER DISTRIBUTION	JULE ENGINE ROOM)		5 94 93 9Z 91 31 DZ 101 100 99		Signal Name	DTRL_RLY			
o. E30	ame WIRE 1	_		16 26 1	18G 19G		42G 4¢		51G 52G		646 656		). E201	_	-	olor WHITE	98 97 96 95 94 93 92		Color of Wire	>			
Connector No.	Connector Name			H.S.								<u></u>	Connector No.	Connector Name		Connector Color	H.S.	1	Terminal No.	105			

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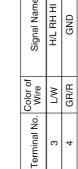
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Revision: September 2009 EXL-119 2010 Altima

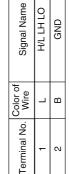
Connector No.	E242
Connector Name	Connector Name LAMP RH (WITH DAYTIME LIGHT SYSTEM)
Connector Color BLACK	BLACK











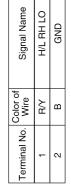
E228	Connector Name   DAYTIME LIGHT RELAY	3LACK	
Connector No.	Connector Name	Connector Color BLACK	



Signal Name	1	1	1	I	ı
Color of Wire	SB	>	GR/R	В	SB
Terminal No.	-	2	3	4	2

E243	Connector Name LAMP RH (WITH XENON HEADLAMP SYSTEM)	GRAY	
Connector No.	Connector Name	Connector Color GRAY	





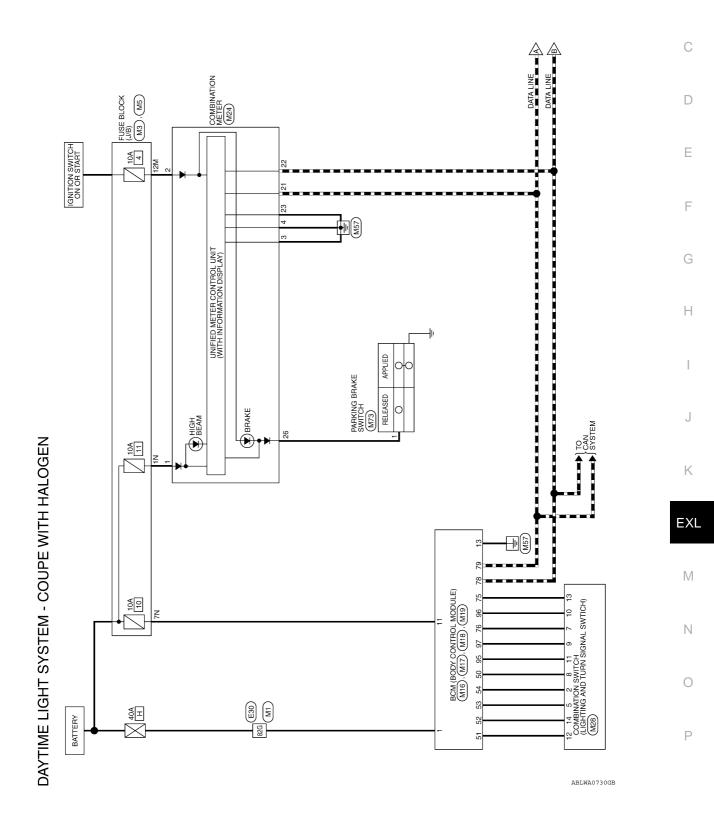
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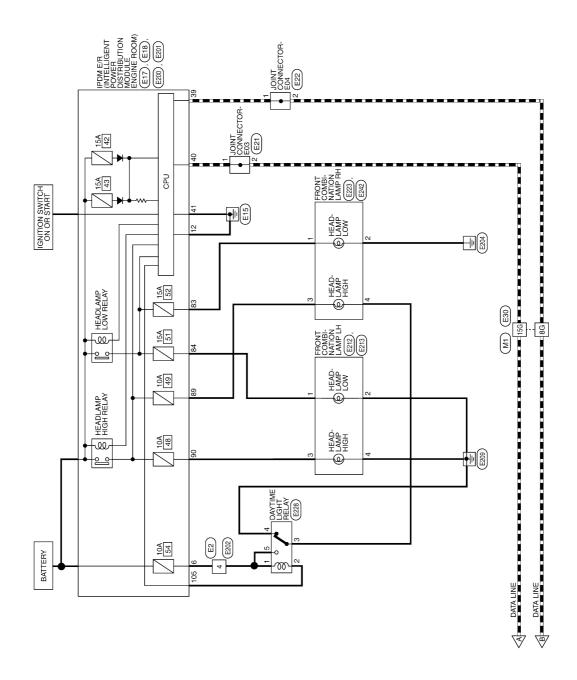
### DAYTIME LIGHT SYSTEM – HALOGEN COUPE

COUPE : Wiring Diagram

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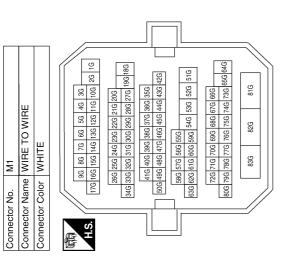


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# DAYTIME LIGHT SYSTEM CONNECTORS - COUPE WITH HALOGEN

Connector No.	. M3	
Connector Name	ame FUS	FUSE BLOCK (J/B)
Connector Color WHITE	olor WH	TE
呵呵 H.S.	NE N8	2N 1N SN 4N SN 4N
Terminal No.	Color of Wire	Signal Name
Z	W/L	I
N.	Y/R	1

	_			
Signal Name	I	ı	ſ	
Color of Wire	Ь	٦	M/B	
Terminal No. Wire	8G	15G	82G	



	Connector Name BCM (BODY CONTROL MODULE)	ITE	4     5     6     7     8     9     10       11     12     13     14     15     16     17     18     19	Signal Name	BAT_BCM_FUSE	GND1
. M17	me BCN MOI	lor WH	5 6 7	Color of Wire	Y/R	В
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.	11	13

	Connector Name BCM (BODY CONTROL MODULE)	Š		Signal Name	BAT_POWER_F/L
M16	me BCN MOI	or BLA		Color of Wire	W/B
Connector No.	Connector Na	Connector Color BLACK	赋利 H.S.	Terminal No.	-

	Connector Name FUSE BLOCK (J/B)	TE	Ma   Ma   Ma   Ma   Ma   Ma   Ma   Ma	Signal Name	ı
. M5	me FUS	lor WH	5M 4M 12M 11M	Color of Wire	0
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.	12M

	Wire	12M
Signal Name	Color of Wire	Terminal No.

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**EXL-123** Revision: September 2009 2010 Altima Α

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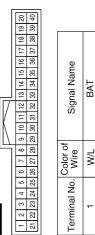
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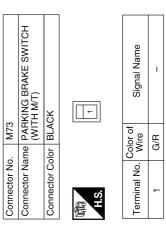
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### **DAYTIME LIGHT SYSTEM - HALOGEN**





Signal Name	BAT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)	PKB
Color of Wire	M/L	0	В	В	_	Ь	В	G/R
Terminal No.	-	2	က	4	21	22	23	56



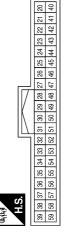
M19	Connector Name BCM (BODY CONTROL MODULE)	ILACK	
Connector No.	Connector Name   E	Connector Color BLACK	



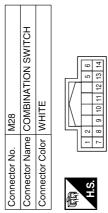
이		_	_						1
20 20 20 20 20 20 20 20 20 20 20 20 20 2	Signal Name	OUTPUT 5	OUTPUT 3	CAN-L	CAN-H	OUTPUT 1	OUTPUT 4	OUTPUT 2	
94 90 95 9	Color of Wire	R/Υ	R/G	Ь	٦	R/W	P/B	B/B	
29 20 21 20 22	Terminal No.	75	9/	78	6/	92	96	26	

Terminal No.         Color of Wire Wire         Signal Name           2         G/Y         OUTPUT 4           5         LG/R         OUTPUT 3           7         R/G         INPUT 3           8         LG/B         OUTPUT 5           9         R/B         INPUT 2           10         P/B         INPUT 4           11         R/W         INPUT 1           12         L/W         OUTPUT 1           13         R/Y         INPUT 5           14         G/B         OUTPUT 2											
Color of Wire 2 G/Y 8/7 CAR 2 CG/R 2 CG/R 8 LG/B 9 R/B 10 P/B 11 R/W 11 R/W 13 R/Y 13 R/Y 14 G/B	Signal Name	OUTPUT 4	OUTPUT 3	NPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
7 7 8 8 9 9 11 11 11 12 13 13	Color of Wire	G/Y	LG/R	R/G	LG/B	B/B	P/B	B/W	L/W	R/Y	G/B
<u> </u>	Terminal No.	2	2	7	8	6	10	11	12	13	14

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



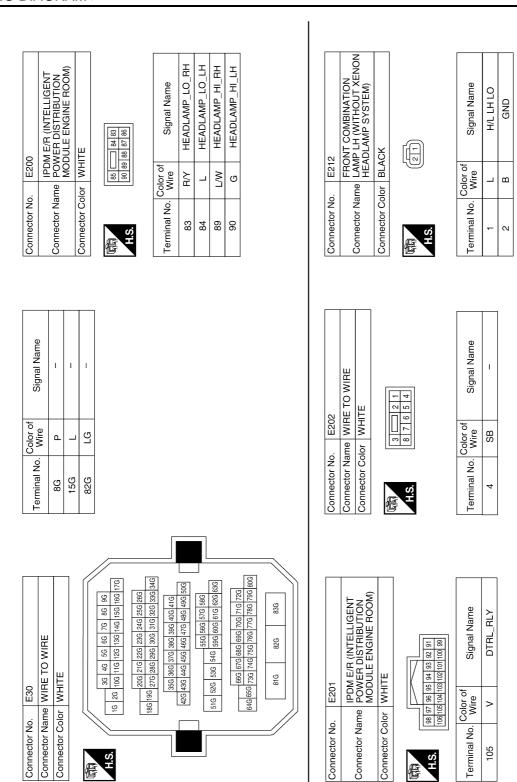
Signal Name	INPUT 5	INPUT 1	INPUT 2	INPUT 3	INPUT 4
Color of Wire	LG/B	M	G/B	LG/R	G/Y
Terminal No.	20	51	52	53	54



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	20212223324 35 36 20212223324 B 35 36 B		A B
PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE	Signal Name  DTRL  GND (POWER)		D
Connector No. E18 Connector Name POWEI MODUL Connector Color WHITE	9   10   11   12   13   14		E F
POWER DISTRIBUTION WHITE  42 41 40 33 61 65 44 45	Signal Name CAN-L CAN-H GND (SINGAL)	E22 JOINT CONNECTOR-E04 WHITE  A 3 2 1 1 1	G
	Color of Wire P P B B	Signal and a signa	I
Connector No. Connector Name Connector Color H.S.	Terminal No. 39 40 41		K
E2 WHITE WHITE 1 2 ■ 3	Signal Name	Signal N.	EXL M
Connector No. E2 Connector Name WIRE TO WIRE Connector Color WHITE    1 2	Color of Wire 4 L	Connector No. E21 Connector Name JOINT Connector Color WHITE  Terminal No. Wire  1 L 2 L	N O
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**EXL-125** Revision: September 2009 2010 Altima



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### **DAYTIME LIGHT SYSTEM – HALOGEN**

### < WIRING DIAGRAM >

Connector No. E228
Connector Name DAYTIME LIGHT RELAY

CK	1 4 1	Signal Nan	_	ı	_	-	ı
olor BLA		Color of Wire	SB	>	GR/R	В	SB
Connector Color BLACK	H.S.	Terminal No.	Į.	2	3	7	5

	NON					
	FRONT COMBINATION LAMP RH (WITHOUT XENON HEADLAMP SYSTEM)	Š	21	Signal Name	H/L RH LO	GND
. E223	me LAN HE/	lor BLA		Color of Wire	R/Υ	В
Connector No.	Connector Name	Connector Color BLACK	南 H.S.	Terminal No.	٦	2

Connector No.	). E213	8
Connector Na	ame FRC LAN	Connector Name FRONT COMBINATION LAMP LH
Connector Color	olor BLACK	Š
H.S.	[4]	Fig. 1
Terminal No.	Color of Wire	Signal Name
3	9	H/L LH HI
4	В	GND

**SEDAN** 

E242	FRONT COMBINATION LAMP RH (WITH DAYTIME LIGHT SYSTEM)	LACK	4
Connector No.	Connector Name L	Connector Color BLACK	副 H.S.

FRONT COMBINATION LAMP RH (WITH DAYTI LIGHT SYSTEM)	CK	(A)	Signal Name	ІН НЫ 7/Н	GN5
	lor BLACK	4	Color of Wire	L/W	GR/R
Connector Name	Connector Color	H.S.	Terminal No.	3	4

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**EXL-127** Revision: September 2009 2010 Altima Α

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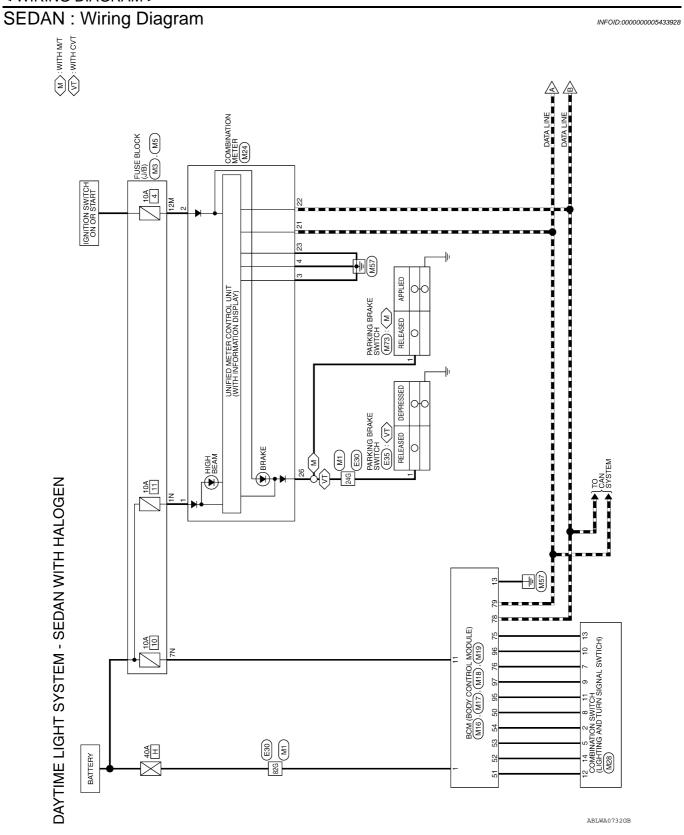
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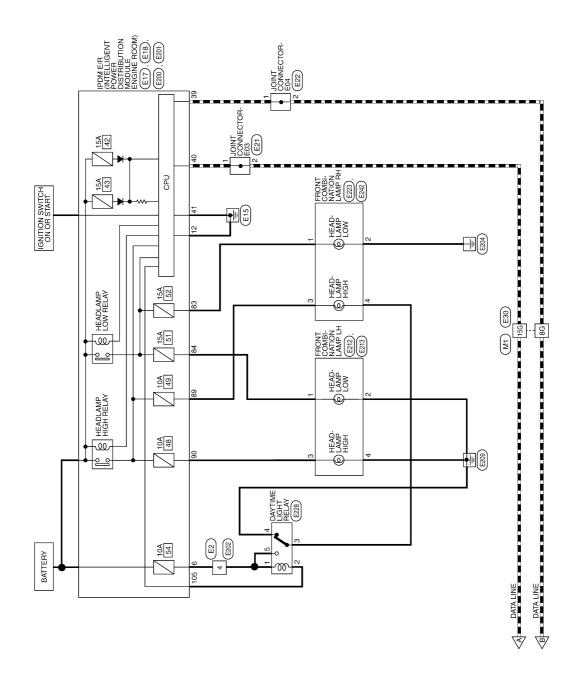
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# DAYTIME LIGHT SYSTEM CONNECTORS - SEDAN WITH HALOGEN

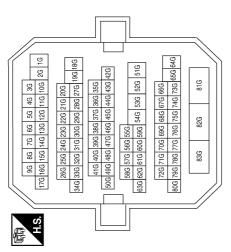
Connector Name WIRE TO WIRE Connector Color WHITE

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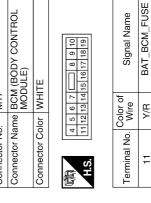
Connector No.

	Connector Name FUSE BLOCK (J/B)	ITE		Signal Name	_	-
. W3	me FUS	lor WH	NE NB	Color of Wire	M/L	Y/R
Connector No.	Connector Na	Connector Color WHITE	原语 H.S.	Terminal No.	N.	N2

ø.					
Signal Name	I	_	1	_	
Color of Wire	Ъ	٦	G/R	M/B	
Terminal No. Wire	8G	15G	24G	82G	







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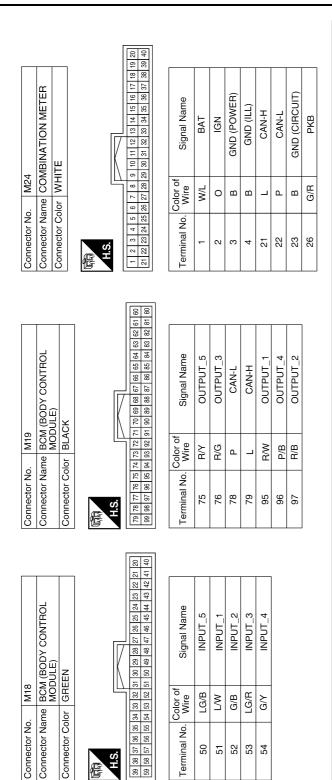
	Connector Name   BCM (BODY CONTROL MODULE)	CK	13	Signal Name	BAT POWER F/L
. M16	me BCN MOI	lor BLA		Color of Wire	M/B
Connector No.	Connector Na	Connector Color BLACK	崎南 H.S.	Terminal No.	-

Connector No.	). M5	
Connector Name	ıme FUS	FUSE BLOCK (J/B)
Connector Color WHITE	olor WHI	11
H.S.	5M 4M 12M 11M	10M   SM   SM   1M   1M   10M   SM   SM   TM   SM
Terminal No.	Color of Wire	Signal Name
12M	0	ı

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### **DAYTIME LIGHT SYSTEM – HALOGEN**

### < WIRING DIAGRAM >



Connector Name PARKING BRAKE SWITCH (WITH M/T) Connector Color BLACK	Connector No. M73	
Connector Color BLACK	nector Name PARKING BF (WITH M/T)	SAKE SWITCH
H.S.	nector Color BLACK	
	j.	

Signal Name

Terminal No.

G/R

Signal Name	OUTPUT_4	OUTPUT_3	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	
										O TI ITPI IT
Wire	G/Y	LG/R	B/B	TG/B	R/B	P/B	R/W	$\mathbb{N}$	R/Υ	g/9
Terminal No.	2	5	7	8	6	10	11	12	13	14

Connector No.	١.	≥	M28						
Connector Name COMBINATION SWITCH	le l	0	ō	AB	ĺÈ	F	ō	S	WITCH
Connector Color WHITE	<u>o</u>	>	ĮΨ	世	l				
		ļ							
		片		II.	W	117	$\overline{}$		
V.	-	2					5	9	
5	7	8	6	8 9 10 11 12 13 14	Ξ	42	5	4	

	9	14
	5	13
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- IN		10
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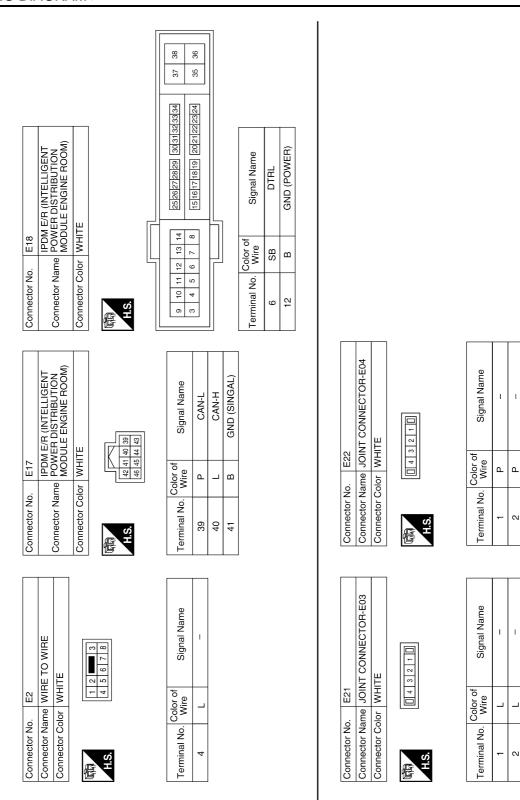
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### **DAYTIME LIGHT SYSTEM - HALOGEN**

### < WIRING DIAGRAM >

Connector No. E35 Connector Name PARKING BRAKE SWITCH (WITH CVT) Connector Color BLACK  Terminal No. Wire Signal Name  1 P	Connector No. E202 Connector Name WIRE TO WIRE Connector Color WHITE    Same   Same   Signal Name   Signal Name   SB
Signal Name	Connector No. E201  Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)  Connector Color WHITE  H.S. Sign Sign Sign Sign Sign Sign Sign Sign
Connector No.   E30   Connector Name   WIRE TO WIRE   Connector Name   WIRE TO WIRE   Connector Color   WHITE     36 46 56 66 76 86 96   16 26 106 116 126 136 146 156 176   176 176 176   176 176 176   176	Connector No.   E200   E200   Connector Name   POWER DISTRIBUTION   MODULE ENGINE ROOM)   Connector Color   WHITE   Signal Name   Signal Nam

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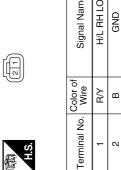
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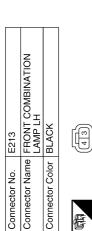
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Revision: September 2009 EXL-133 2010 Altima

Connector No.	E223
Connector Name	Connector Name LAMP RH (WITHOUT XENON HEADLAMP SYSTEM)
Connector Color BLACK	BLACK

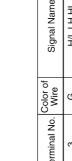


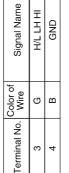


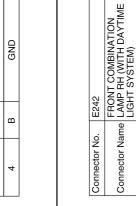


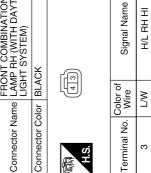
E212

Connector No.





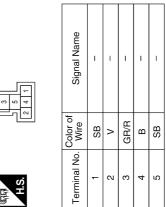




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Connector Name	FRC LAN	FRONT COMBINATION LAMP LH (WITHOUT XENON HEADLAMP SYSTEM)
Connector Color   BLACK	olor BLA	OK
品S.		
Terminal No.	Color of Wire	Signal Name
1	٦	H/L LH LO
2	В	GND

E228	Connector Name DAYTIME LIGHT RELAY	BLACK	
Connector No.	Connector Name	Connector Color BLACK	



GND

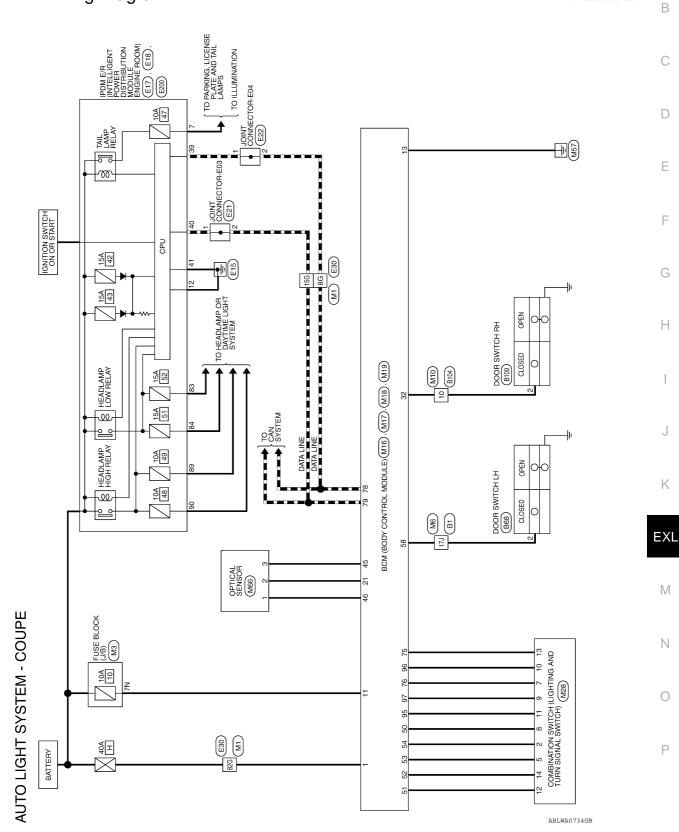
GR/R

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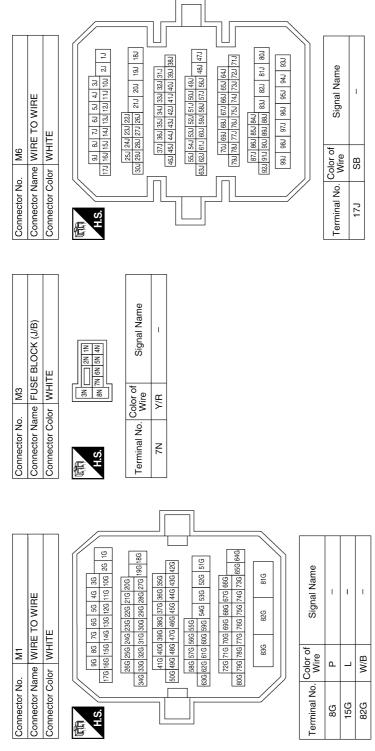
### AUTO LIGHT SYSTEM COUPE

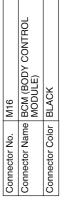
COUPE: Wiring Diagram

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### AUTO LIGHT SYSTEM CONNECTORS - COUPE



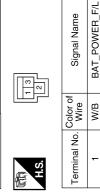


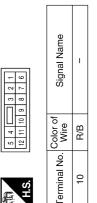
Connector Name WIRE TO WIRE

M10

Connector No.

Connector Color BROWN





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Signal Name	GND RF2 A/L	A/L SENS KEYLESS TUNER POWER SUPPLY	INPUT 5	INPUT 1	INPUT 2	INPUT 3	INPUT 4	DR DOOR SW
Color of Wire	۵	W//	LG/B	<b>N</b>	G/B	LG/R	G/Y	SB
Terminal No. Wire	45	46	09	51	25	23	24	28

Connector No.	ľ	ect	or	No		_	M18	8											
ပိ	Connector Name   BCM (BODY CONTROL   MODULE)	ect	ō	Na	l E	~ _	BCM (BOD MODULE)	<u>₹</u> Д		٣١	  ≻	ΙŌ	늘	윤	با				
ပိ	Connector Color GREEN	ect	ō	ပိ	ō		3B	Ш	z										
																	l		
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于 <b>`</b>	1																		
7	E.S.	<b>.</b> 6					_			W	117								
8		38 37 36 35 34 33 32 31 30 29 28 27	38	38	8	g	32	31	8	83	88		92	35	27	3 2	26 25 24 23 22 21 20	20	
29	28	22	99	55	54	53	52	51	20	49	48	47	46	45	4	3	58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40	40	
]	l				l	l	1	1	1	l	1	l	l	l	l	ł	l	ļ	

	Connector Name BCM (BODY CONTROL MODULE)	l E	4 5 6 7 6 9 10 11 12 13 14 15 16 17 18 19	Signal Name	BAT_BCM_FUSE	GND1
M17	me BCM MOD	lor WHI	5 6 7 [	Color of Wire	Y/R	В
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.	=	13

Copportor No	MAG	
Connector Na	me OPT	Connector Name OPTICAL SENSOR
COLINECTOR COLOR WILLE	IOI NOI	E
Ą		
	ŧ	2 3
Ġ.		
Terminal No. Wire	Color of Wire	Signal Name
1	M/A	POWER
2	B/B	OUTPUT

nector Name COMBINATION SWITCH	ıme	C	Ó	ИВ	ż	۸T	ō	N SWITC	픗
nector Color WHITE	olor	<	ĮΨ	E	l				
		l I					١,		
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ď	-	2					5	9	
1	7	8	6	10	Ξ	9 10 11 12 13 14	13	14	
		ı	ı	ı	ı	ı	ı	1	

AUTO LIGHT SENSOR INPUT1 AS DOOR SW

B/B

32 21

Signal Name

Terminal No. Wire

Connector No.	M28
Connector Name	Connector Name COMBINATION S
Connector Color	WHITE
僵	
H C	2 5 6
	11 01 01 01 0

Signal Name	OUTPUT 4	OUTPUT 3	INPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OHTPIT
Color of Wire	G/Y	LG/R	R/G	LG/B	R/B	P/B	B/W	L/W	R/Υ	a/U
Terminal No.	7	5	7	8	6	10	1	12	13	11
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Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK

	-		11
	62	82	
	ß	83	
	75	84	
	92	85	
	99	98	
	29	87	
117	88	88	
- IV	69	89	
- 11	20	90	
	7	91	
	72	92	
	73	93	
	74	94	
	75	95	
	9/	96	
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	79	99	П

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	99	8									
	61	8									
	62	88									
	æ	æ									
	95	84		Θ		_			_		_
	65	82		an	Ë	-	_	I	i-	1	Ŀ
	99	88		Ž			ż	ž	2		=
	29	87		nal	OUTPUT 5	оптрит з	CAN-L	CAN-H	OUTPUT 1	OUTPUT 4	OUTPUT 2
Τ	88	88		Signal Name	ŏ	ಠ			ಠ	٦	ō
′	69	68		O)							
	70	8									
\	7	8									
ī	72	8		Color of Wire	L	رح			>	· ~	~
1	73	93		olor o Wire	Rγ	R/G	□	_	₩ W	P/B	B/B
1	74	용		ŏ-		_			_		П
1	75 74	95		0.							
1	9/	96		Z							
1	92 22	97		ına	75	92	78	79	95	96	26
1	78	88		Ē	ľ		ľ				_
1	79	66		Terminal No.							
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Connector No.   E21	Terminal No. Color of Signal Name  8G P
Connector No.   E18	Connector No. E30  Connector Name WIRE TO WIRE  Connector Color WHITE  16 26 106 116 126 138 146 156 166 176  206 216 226 226 246 256 286  186 196 276 226 226 246 256 286  186 196 276 286 286 376 386 386 406 416  356 356 376 386 376 386 386 406 416  516 256 356 376 386 386 406 176 186 186 176  686 676 686 676 686 176 186 186 186 186 186 186 186 186 186 18
Connector No. E17  Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)  Connector Color WHITE  Registration  Terminal No. Wire  39 P CAN-L 40 L CAN-H 41 B GND (SIGNAL)	Connector No.   E22   Connector Name   JOINT CONNECTOR-E04   Connector Color   WHITE

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Connector No. B68 Connector Name DOOR SWITCH LH (WITH COUPE)	Connector Color WHITE	H.S. 8	Terminal No. Color of Signal Name									
	_	/	7] [			_	[[			=\		
E TO WIRE	Ц	33 44 53 64 75 83 94 100 100 110 122 133 144 153 164 177   22 22 23 24 253 24 253 25 24 253 25 25 25 25 25 25 25 25 25 25 25 25 25	31.] 32.] 33.] 34.] 35.] 36.] 37.]	38J 39J 40J 41J 42J 43J 44J 45J 46J	47J 48J 56J 57J 58J 59J 60J 61J 62J 63J		71.] 72.1 73.] 74.] 75.] 76.] 77.] 78.] 79.]	84.185.186.187.1	82J 83J 88J 89J 90J 91J 92J	J 95J 96J 97J 98J 99J	Signal Name	I
ime WIRE	M No	19 19 19	33.7	38,139,1	47.3 48.3		71.0 72.0		800 813	93.1	Color of Wire	SB
Connector No. B1 Connector Name WIRE TO WIRE		H.S.	<u> </u>							_//	Terminal No. Wire	17.1
		٦			1							
E200 IPDM E/R (INTELLIGENT POWER DISTRIBUTION	Щ	88   87   86		Signal Name	HEADLAMP_LO_RH	HEADLAMP_LO_LH	HEADLAMP_HI_RH	HEADLAMP_HI_LH				
1-1		1		Color of Wire	P/A	_	<u></u>	σ				
Connector No.	Connector Color	H.S.		Terminal No.	83	84	88	06				

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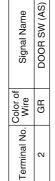
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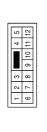






Signal Name

	111		
B104	WIRE TO WIRE	BROWN	
Connector No.	Connector Name WIRE TO WIRE	Connector Color BROWN	





Signal Name	ı	
Color of Wire	GR	
Terminal No.	10	

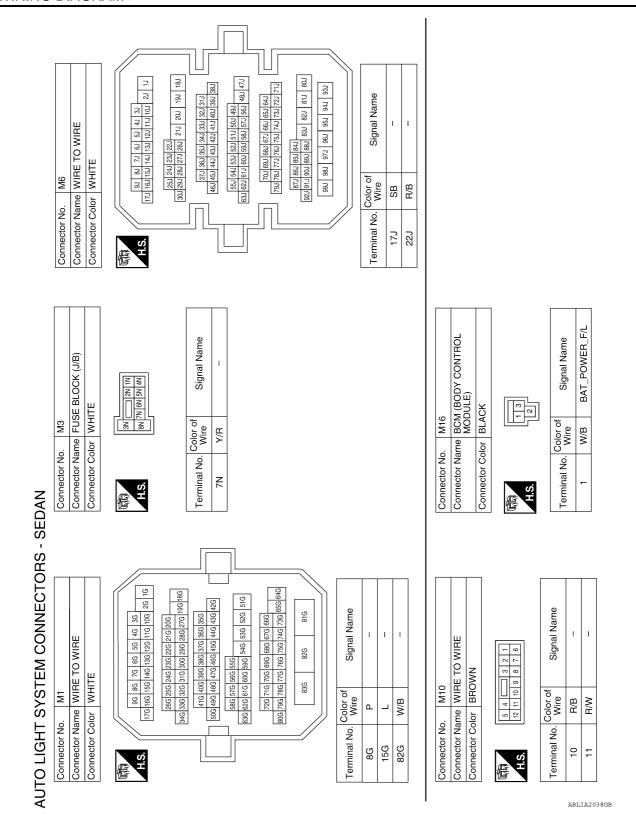
**SEDAN** 

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**SEDAN**: Wiring Diagram INFOID:0000000005433930 Α TO PARKING, LICENSE PLATE AND TAIL LAMPS TO ILLUMINATION IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E17) (E18), В 10A 47 С TAIL M57 D JOINT CONNECTOR-E03 (E21) ത OPEN IGNITION SWITCH ON OR START Е REAR DOOR SWITCH RH (B116) CLOSED 15G CPU 15A 42 F = E TO HEADLAMP OR DAYTIME LIGHT SYSTEM OPEN Юю G FRONT DOOR SWITCH RH (B108) BCM (BODY CONTROL MODULE) (M16), (M17), (M18), (M19), (M21) CLOSED M10 B104 HEADLAMP COW RELAY Н 15A 51 OPEN HEADLAMP HIGH RELAY 10A 49 REAR DOOR SWITCH LH (B18) CLOSED J 10A 48 w 22.1 K OPEN OPTICAL SENSOR (M66) FRONT DOOR SWITCH LH (B8) CLOSED **EXL** M6 B4 FUSE BLOCK (J/B) AUTO LIGHT SYSTEM - SEDAN  $\mathbb{N}$ 14 5 2 8 11 9 7 10 13
COMBINATION SWITCH
(LIGHTING AND TURN SIGNAL SWITCH)
(M28) 10A Ν 82G M1 ₩ ¥ E 0 BATTERY

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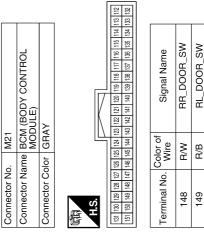
Signal Name	GND RF2 A/L	A/L SENS KEYLESS TUNER POWER SUPPLY	INPUT 5	INPUT 1	INPUT 2	INPUT 3	INPUT 4	DR DOOR SW
Color of Wire	Ь	W/N	LG/B	~	G/B	LG/R	G/Y	SB
Terminal No.	45	46	20	51	52	53	54	58

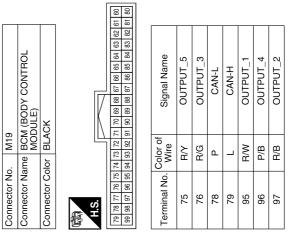
Connector No. M18	Connector Name BCM (BODY CONTROL MODULE)	Connector Color GREEN		į.	88 37 36 35 34 33 32 31 30 29 28 27 26 25 24 29 22 21 20 26 25 56 55 54 59 22 21 20 20 25 56 55 56 55 56 55 56 55 56 55 56 55 56 55 56 55 56 55 56 55 56 55 56 56	Terminal No. Color of Wire Signal Name	21 P/B AUTO LIGHT SENSOR INPUT1	32 B/B AS DOOB SW
Connecto	Connecto	Connecto	E -	2		Terminal	21	32

	Connector Name   BCM (BODY CONTROL   MODULE)	ITE	11 12 13 14 15 16 17 18 19	Signal Name	BAT_BCM_FUSE	GND1
. M17	me BCI MO	lor WH	1 12 13 14	Color of Wire	Y/R	В
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.	11	13

M28	Connector Name COMBINATION SWITCH	WHITE	2 8 9 10 11 12 13 14	r of
Connector No.	Connector Name	Connector Color WHITE	H.S.	Color of

H.S. 1 2 9 10 11 12 13 14	Connector Color WHITE	MBINATION SWITCH		Connector No. Connector Col Connector Col A.S.  A.S.  7 7 7 7 7 10
Color of Wire G/Y LG/R R/G LG/B R/B R/B P/B	Color of Wire G/Y LG/B R/G R/B R/B P/B P/B P/B P/B P/B P/B P/B P/B P/B P	INPUT_1	₩.	11
Color of Wire G/Y LG/R R/G LG/B R/B	1   2	INPUT_4	B/B	10
Color of Wire G/Y LG/B LG/B	1   2	INPUT_2	B/B	6
Color of Wire G/Y LG/R R/G	1   2	OUTPUT_5	LG/B	8
Color of Wire G/Y LG/R	1 2	INPUT_3	R/G	7
Color of Wire G/Y	Color of Wire G/Y	OUTPUT_3	LG/R	5
Color of Wire	1 2 9 10 11 1 Color of Wire	OUTPUT_4	G/Y	2
	S. 1 2 7 8 9 10 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13		Color of Wire	Terminal No.
		MBINATION SWITCH	_	Connector Na
-		ω.		Connector No





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**EXL-143** Revision: September 2009 2010 Altima Α

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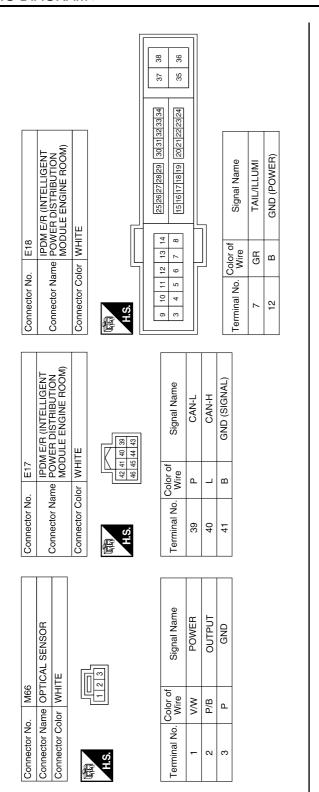
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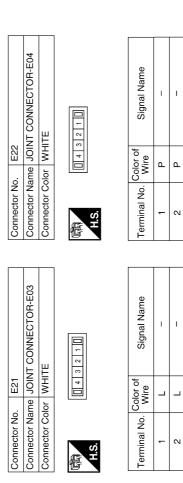
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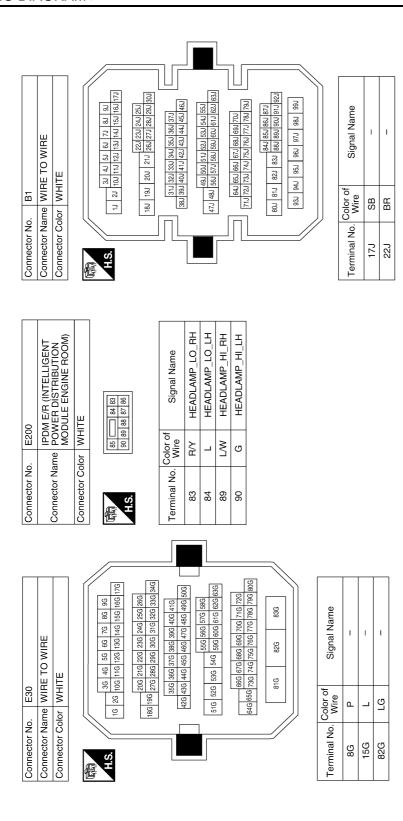
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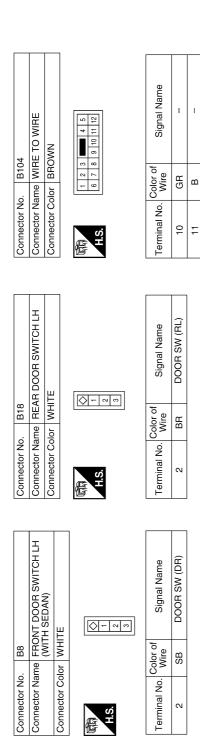
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Connector No. B116	Connector Name REAR DOOR SWITCH RH	Connector Color WHITE	_		Terminal No. Wire Signal Name	R DOOR SW (RB)
Conne	Conne	Conne		H.S.	Termir	
8	Connector Name   FRONT DOOR SWITCH RH	(WITH SEDAN)	E		Signal Name	DOOR SW (AS)
. B108	me FRC	M)	or WHI		Color of Wire	GB
Connector No.	Connector Nar		Connector Color   WHITE	南 H.S.	Terminal No. Wire	٥

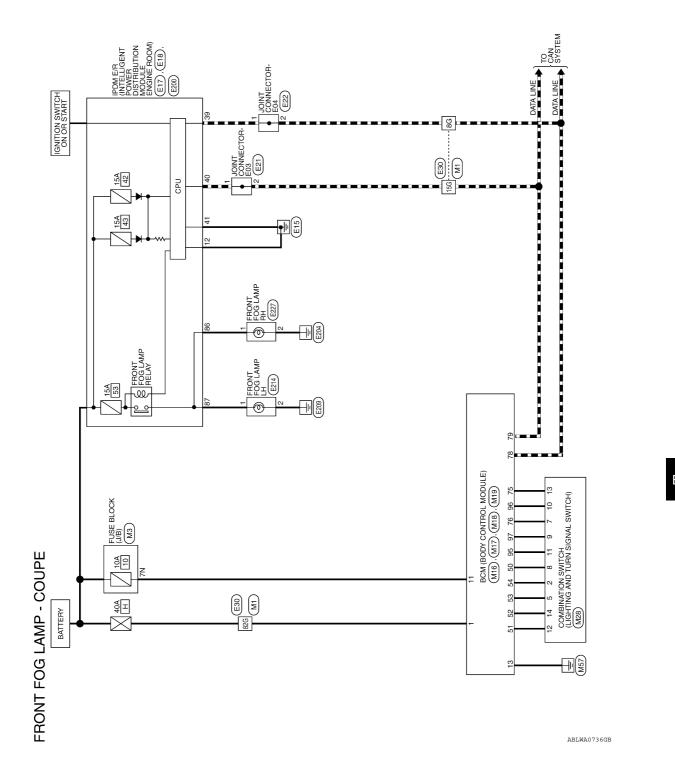
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### FRONT FOG LAMP

**COUPE** 

**COUPE**: Wiring Diagram

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**EXL** 

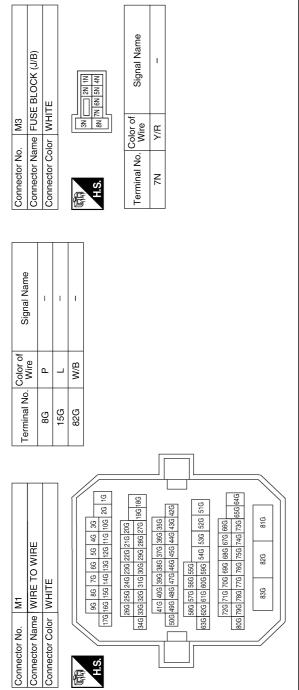
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## FRONT FOG LAMP CONNECTORS - COUPE



	DY CONTROL ()				38 37 36 35 34 33 32 31 30 29 28 27 26	59 58 57 56 55 54 53 52 51 50 49 48 47 46	
M18	BCM (BOI MODULE)	GREEN			7 36 35 34	7 56 55 54	
Connector No.	Connector Name BCM (BODY CONTROL MODULE)	Connector Color GREEN	é	F	39 38 3	8 8 8 8	

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S I	39 38	38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20	88	엃	33	엃	33	8	83	88	27	26	32	77	g	ន	7	20
	59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40	27 56	55	54	23	22	51	20	49	8	47	46	45	44	43	42	4	9
J																		
Terminal No. Wire	<u></u> 8≥	or o /ire	<u> </u>		",	Signal Name	l a	ΙŽ	ਵ਼	ω								
20		LG/B				≚	INPUT 5	Ē	١٠									
51		×					INPUT 1	١	_									
52	-	G/B				Z	INPUT 2	Ë	OI.									
53		LG/R					INPUT 3	Ϊ́										
54	0	G/Y				Z	INPUT 4	È	4									

	Connector Name   BCM (BODY CONTROL   MODULE)	CK	23	Signal Name	BAT_POWER_F/L
. M16	me BCN MOI	lor BLA		Color of Wire	M/B
Connector No.	Connector Na	Connector Color BLACK	雨 H.S.	Terminal No. Wire	-

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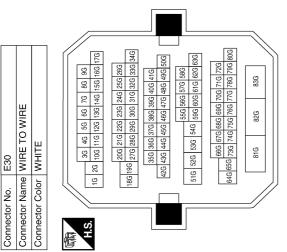
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Connector No.	or No. M19	6	Connector No.	or No. M28		Connec	Connector No.	E17	
Connector Name	-	BCM (BODY CONTROL MODULE)	Connector Name Connector Color	Connector Name COMBII Connector Color WHITE	COMBINATION SWITCH WHITE	Connec	Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION
Connector Color	-	BLACK				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Connector Color	_	LE ENGINE ROOM)
Ą			晋					_	
H.S.			H.S.	7 8 9	10 11 12 13 14	·····································		45 44 43 45 44 43	88 84
7 77 87 67 7	76 75 74 73 72 96 95 94 93 92	78         77         76         75         74         73         73         70         69         68         67         66         65         64         65         62         61         60           98         97         96         95         94         93         82         91         90         89         86         87         86         88         82         81         80         81         80	Terminal No.	No. Color of Wire	Signal Name				
			2	G/Y	OUTPUT 4	Terminal No.		Color of	Signal Name
Terminal No.	No. Color of Wire	Signal Name	5	LG/R	OUTPUT 3			- Le	- NAC
75	₽V	OUTPUT 5	7	R/G	INPUT 3	39		<u> </u>	CANT
2/2	B/G	OUTPUT 3	8	LG/B	OUTPUT 5	40			CANA-II
78	<u> </u>	CAN-L	6	R/B	INPUT 2	<b>+</b>		ا د	(בונה (בונה בו
79	_	CAN-H	10	P/B	INPUT 4				
95	R/W	OUTPUT 1	=	B/W	INPUT 1				
96	P/B	OUTPUT 4	12	L/W	OUTPUT 1				
6	B/B	OUTPUT 2	13	R/≺	INPUT 5				
5			14	G/B	OUTPUT 2				
Connector No.		8	Terminal No.	No. Color of	Signal Name	Connec	Connector No.	E21	
Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION	12		٥	Connec	Connector Name	JOINT	Connector Name JOINT CONNECTOR-E03 Connector Color WHITE
Connector Color	_	WHITE							
恒						H.S.		4 3	2 1 0
H.S.									
						Terminal No.		Color of Wire	Signal Name
9 10	11 12 13	14 25 26 27 28 29 30 31 32 33 34	37 38					_	1
	5 6 7	8 [15[16[17]18]19] [20[21[22[23]24]	35 36			CA .			1
(									

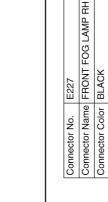
Revision: September 2009 EXL-149 2010 Altima

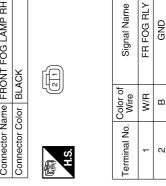
Signal Name	ı	I	ı
Color of Wire	Ь	Τ	LG
Terminal No. Wire	86	15G	82G

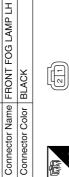


E22	Connector Name JOINT CONNECTOR-E04	WHITE	14321
Connector No.	Connector Name	Connector Color WHITE	

4 3 2 1 1	Signal Name	I	I
4	Color of Wire	Ь	Д
H.S.	Terminal No.	-	٥







Connector No.



Signal Name	FR FOG RLY	GND	
Color of Wire	$\sim$	В	
Terminal No.	1	2	

	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	3	
Connector No. E200	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM	Connector Color WHITE	



82	Ш	П	84	83
90	68	88	87	98
I	I		I	I

Signal Name	FR_FOG_LAMP_RH	FR_FOG_LAMP_LH	
Color of Wire	W/R	$\sim$	
Terminal No.	98	87	

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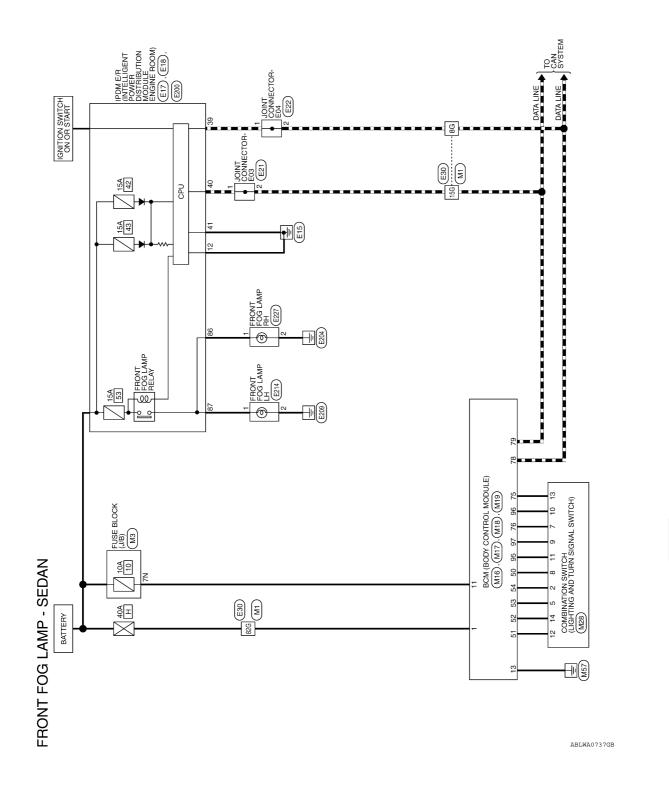
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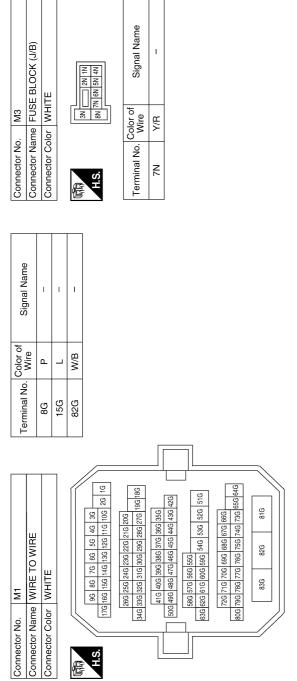
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SEDAN : Wiring Diagram

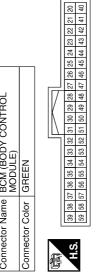


Revision: September 2009 EXL-151 2010 Altima

## FRONT FOG LAMP CONNECTORS - SEDAN



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



Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4
Color of Wire	LG/B	L/W	G/B	LG/R	G/Y
Terminal No. Wire	20	51	25	53	54

	Connector Name BCM (BODY CONTROL MODULE)	ITE	01 6 8	11 12 13 14 15 16 17 18 19		Signal Name	BAT_BCM_FUSE	GND1
M17	me BCN MOI	or WH	5 6 7	12 13 14		Color of Wire	Y/R	В
Connector No.	Connector Na	Connector Color WHITE	4	H.S.		Terminal No.	11	13
_					'	•		



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Signal Name	BAT_POWER_F/L	
Color of Wire	M/B	
Terminal No. Wire	1	

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Connector Name BCM (BODY CONTROL MODULE)

M16

Connector No.

BLACK

Connector Color

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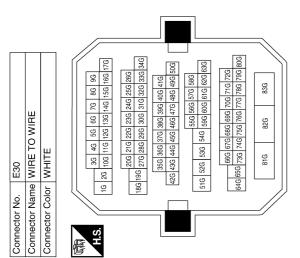


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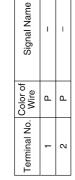
Ö	Connector No.	. M19	OGE NOO		Connector No.	No. M28	Connector No. M28		Connector No.			Ė	
<u>වි</u>	Connector Name Connector Color	Connector Name BCM (B MODUL Connector Color BLACK	BCM (BODY CONTROL MODULE) BLACK		Connector	Connector Color WHITE	E E	Ę	Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	LLIGENI BUTION JE ROOM)	
					E		<b>[</b> /		Connector Color	Color WHITE	ΙΕ		
······································	H.S.				H.S.	7 8 9 10	7 8 9 10 11 12 13 14		南 H.S.	42 41 40 3	8 9		
66 26	78 77 76 75 7 98 97 96 95 9	74 73 72 71 7	79 78 77 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 60 99 98 97 96 95 94 93 92 91 90 98 87 86 85 64 83 82 81 80	31 60	Terminal No.	Color of Wire	Signal Name			46 4	46 45 44 43		
]] [		-		]]	2	G/Y	OUTPUT_4		Terminal No.	Color of		Signal Name	
Ter	Terminal No.	Color of Wire	Signal Name		2	LG/R	OUTPUT_3		ç	Wire			
	75	Ρ/Υ	OUTPUT_5		^	R/G	INPUT_3		88	_	CAN-H	בן אר לים אר	
	92	R/G	OUTPUT_3		∞	LG/B	OUTPUT_5		40	ے ا	GND (SIGNAL)	(IANG)	
	78	۵	CAN-L		6	B/B	INPUT_2		4	۵	מוס	ומואר)	
	62		CAN-H		10	P/B	INPUT_4						
	95	B/W	OUTPUT_1		<del>-</del>	B/W	INPUT_1						
	96	P/B	OUTPUT_4		12	N	OUTPUT_1						
	97	B/B	OUTPUT 2		13	R/Y	INPUT_5						
	5	1	I		14	G/B	OUTPUT_2						
Ö	Connector No.	. E18			Teriminal No	Color of	Signal Name		Connector No.	No. E21			
0	Connector Name	IPDM I	IPDM E/R (INTELLIGENT POWER DISTRIBUTION		10	Wire	GND (POWER)		Connector	Name JOI	Connector Name JOINT CONNECTOR-E03	TOR-E03	
		MODU	ILE ENGINE ROOM)		!	<u> </u>			Connector Color	Color WHILE	<u></u>		
Ö	nnector Co	Connector Color WHITE							Œ	,			
									H.S.	<del>*</del>	0   2   0		
7	H.S.												
			[-						T Constant	Color of			
			11 -	F					i erminai No.	>		olgnal Name	
	10 1	13	_   '	$\pm$	88				-				
	3 4 5	6 7 8	15 16 17 18 19   20 21 22 23 24	2324 35	36				.7	7			
BLIA20													
47GB													
0	N	NI	EXL	K	J	rl ,	G	F	Е	D	С	В	Α

**EXL-153** Revision: September 2009 2010 Altima

Signal Name	1	ı	Ι
Color of Wire	۵	Т	LG
Terminal No.	98	15G	82G

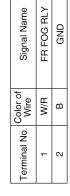


Connector No. E22 Connector Name JOINT ( Connector Color WHITE	Connector No.   E22 Connector Name   JOINT CONNECTOR-E04 Connector Color   WHITE
E.S.	











Connector No.

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

Connector Name

E200

Connector No.

WHITE

Connector Color





Color of Wire
Terminal No.

FR FOG RLY Signal Name

> ₹ В

GND

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F	HE

ĺ	83	98	
I	84	87	
I	П	88	
I	Ш	89	
I	85	90	



F	H.S.	

Signal Name	FR_FOG_LAMP_RH	FR_FOG_LAMP_LH	
Color of Wire	W/R	$\sim$	
Terminal No.	98	87	

ABLIA2048GB

### < WIRING DIAGRAM > TURN SIGNAL AND HAZARD WARNING LAMPS Α **COUPE COUPE: Wiring Diagram** INFOID:0000000005433933 В (RC) : WITH REAR VIEW MONITOR ⟨TM⟩: WITH TURN SIGNAL IN MIRROR ⟨XR⟩: WITHOUT REAR VIEW MONITOR PRESSED С RELEASED DOOR MIRROR RH (D107): < D M14 M15 1010 REAR COMBINATION LAMP RH (B45) Е JOINT CONNECTOR-M02 (M63) F (M6) FRONT COMBINATION LAMP RH G DATA LINE SYSTEM DATA LINE BCM (BODY CONTROL MODULE) (M16), (M17), (M18), (M19) Н FRONT COMBINATION LAMP LH (E237) COMBINATION METER (M24) FUSE BLOCK (J/B) (M3), (M5) TURN SIGNAL AND HAZARD WARNING LAMPS - COUPE ξ E30 J REAR COMBINATION LAMP LH UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) IGNITION SWITCH ON OR START TURN TURN Κ [B] [B] 9 EXL M92 Ê DOOR MIRROR **₽** ā M11 10A M12 M Ν (F E30 COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) 0 Р

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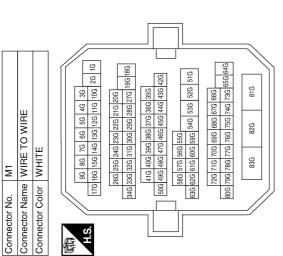
# TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS - COUPE

	Connector Name FUSE BLOCK (J/B)	ITE		Signal Name
M3	me FUS	lor WH	8 8	Color of Wire
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.
	•	•	. <del></del>	

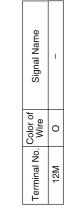
W/L Y/R

Z Z

Signal Name	1	1	I	
Color of Wire	G/Y	G/B	M/B	
Terminal No.	16	2G	82G	



Connector No.	M5
Connector Name	Connector Name   FUSE BLOCK (J/B)
Connector Color WHITE	WHITE



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### < WIRING DIAGRAM >

		Α
M11    WHITE   WHITE   WHITE	O WIRE	В
M11 WIRE TO WHITE Or of fire B B	M15 WIRE TO WHITE  Or of  Ire  Ire  S/B	С
No.   Wire   No.		D
M11   Connector No.   M11   Connector Name   WIRE TO WIRE   Connector Color   WHITE	Connector No. Connector Name Connector Color H.S. H.S.  4 0 0	E
		F
Signal Name	Connector No. M14  Connector Name WIRE TO WIRE  Connector Color WHITE  H.S. Terminal No. Wire Signal Name  5 B	G
Color of Wire B B B B B G/Y G/B	Solor of Wire B	- 11
20 80 90 155	Connector No. Connector Name Connector Color H.S.  5 Col	I
Tem	Conne Conne Termin 5	J
		K
WIRE TO WIRE   WHITE   WHITE	12 HITE HITE  1 12 13 14 15 16  Signal Name	EXL
M6   M6   M6   M1R	0. M12 ame WIRE blor WHITE 1 2 3 9 10 11 Wire G/Y	N
M6   Connector Name   WIRE TO WIRE Connector Name   WHITE   Connector Color   WHITE   Sal	M12   M12   Connector No.   M12   Connector Name   WIRE TO WIRE   Connector Color   WHITE   1   2   3   4   5   6   7   1   1   2   3   4   5   6   7   1   1   1   1   1   1   1   1   1	0
	ABLIA2050GB	
		P

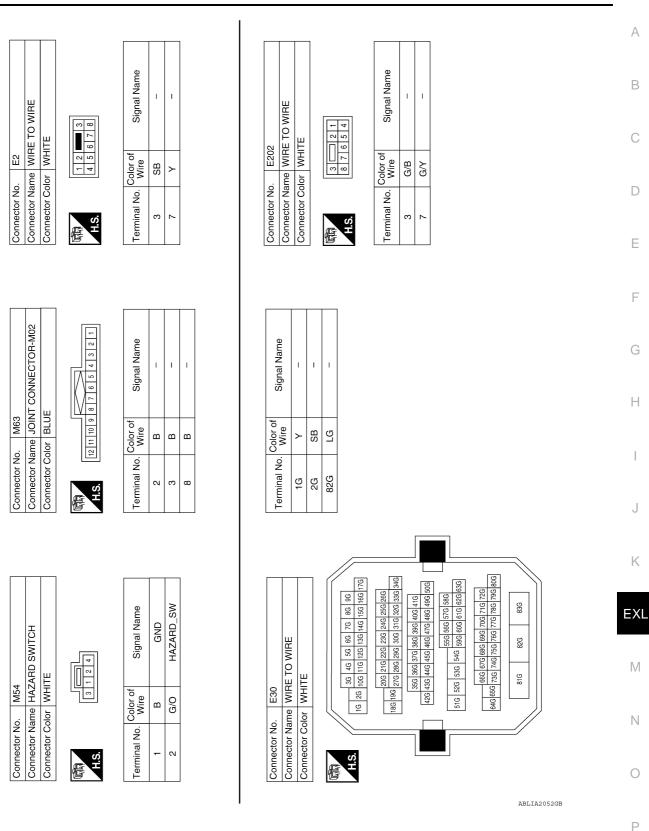
Revision: September 2009 EXL-157 2010 Altima

### < WIRING DIAGRAM >

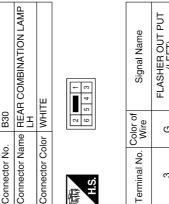
Connector No. M18 Connector Name BCM (BODY CONTROL MODULE) Connector Color GREEN	S.   S   35   34   33   32	59   57   56   55   54   52   52   51   50   49   48   47   46   45   44   43   42   41   40   40	Terminal No. Color of Signal Name Wire	50 LG/B INPUT 5	M	52 G/B INPUT 2	7/9	Connector No. M28		Connector Color   WHI   E	8 9 10 11 12 13	Terminal No.   Color of   Signal Name	2 G/Y OUTPUT 4	5 LG/R OUTPUT 3	7 R/G INPUT 3	8 LG/B OUTPUT 5	9 R/B INPUT 2	10 P/B INPUT 4	11 R/W INPUT 1	12 L/W OUTPUT 1		14 G/B OUTPUT 2
Connector No. M17 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE	H.S. (4   5   6   7   1   3   9   10   14   5   6   7   1   3   14   15   16   17   18   19   10   14   15   16   17   18   19   10   18   19   10   10   10   10   10   10   10	Terminal No.   Color of   Signal Name	Y/R BAT_BCM_FUSE	В	17 G/B FR_FLASHER	5		Connector No.   M24   Col	COMBINATION METER	Connector Color WHITE	I I I I I I I I I I I I I I I I I I I	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Color of	l erminal No. Wire Signal Name	1 W/L BAT	2 O IGN	3 B GND (POWER)	4 B GND (ILL)	21 L CAN-H	22 P CAN-L	23 B GND (CIRCUIT)	
Connector No. M16 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK	H.S.	Terminal No. Color of Signal Name	1 W/B BAT_POWER_F/L					Connector No. M19	Connector Name BCM (BODY CONTROL MODULE)	Connector Color BLACK	H.S.	79         78         77         76         76         76         76         66         66         64         63         62         61         60           99         98         97         96         96         96         96         96         87         96         86         81         90         88         87         96         98         81         90         88         91         90         98 </td <td>90 300</td> <td>Terminal No. Wire Signal Name</td> <td>75 R/Y OUTPUT 5</td> <td>76 R/G OUTPUT 3</td> <td>78 P CAN-L</td> <td>79 L CAN-H</td> <td>95 R/W OUTPUT 1</td> <td>96 P/B OUTPUT 4</td> <td>97 R/B OUTPUT 2</td> <td>98 G/O HAZARD SW</td>	90 300	Terminal No. Wire Signal Name	75 R/Y OUTPUT 5	76 R/G OUTPUT 3	78 P CAN-L	79 L CAN-H	95 R/W OUTPUT 1	96 P/B OUTPUT 4	97 R/B OUTPUT 2	98 G/O HAZARD SW

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### < WIRING DIAGRAM >

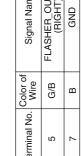


Revision: September 2009 EXL-159 2010 Altima



				_ &	ш
TE	1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Signal Name	FLASHER OUT PUT (LEFT)	GND (COUPE WITH REAR VIEW MONITO	GND (EXCEPT COUPE WITH REAR VIEW MONITOR)
or WHI	0 0	Color of Wire	g	B/W	В
Connector Col	H.S.	Terminal No.	က	വ	S
	Connector Color WHITE	ctor Color WHITE	WHITE Or of fire	or of free FLA	Or of fire of High

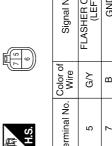
-14::40	1044
Cormector No.	EZ44
Connector Name	Connector Name   FRONT COMBINATION
	LAMP RH (WITH COUPE)
Connector Color   GRAY	GRAY



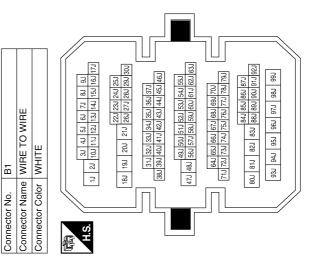
Signal Name	FLASHER_OUT_PUT (RIGHT)	GND	
Color of Wire	G/B	В	
Terminal No. Wire	5	7	

Signal Name	<ul><li>COUPE WITH REAR VIEW MONITOR)</li></ul>	– (EXCEPT COUPE WITH REAR VIEW MONITOR)	-	_	_
Color of Wire	B/W	В	В	G	BR
Terminal No. Wire	1.1	L1	2J	f6	15J

E237	Connector Name   FRONT COMBINATION   LAMP LH (WITH COUPE)	AAY	
Connector No.	Connector Name F	Connector Color GRAY	







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### < WIRING DIAGRAM >

Connector No.	). B45		Connector No. D1	lo. D1		Connector No. D2		
Connector Na	me REA	Connector Name REAR COMBINATION LAMP	Connector Name WIRE TO WIRE	lame WIRE	E TO WIRE	Connector Name WIRE TO WIRE	TO WIRE	
Connector Color WHITE	lor WHI	ПЕ		ILIAN IOIO				
高 H.S.	6 2	1 S S S S S S S S S S S S S S S S S S S	原列 H.S.	7 6 5 4 16 15 14 13	12 11 10 9 8	H.S. 8 7 6 5 4 3 H.S. 16 15 14 13 12 11	1 3 7 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	
Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Signal Name	
က	BR	FLASHER OUT PUT (RIGHT)	8	В	1	6 GR	ı	
5	В	GND						

Connector No. D4	D4		Connector No. D101	D101		Connector No. D102	D102	
Connector Na	ame DOOR I	Connector Name DOOR MIRROR LH	Connector Name WIRE TO WIRE	e WIRE TO	) WIRE	Connector Name WIRE TO WIRE	me WIRE	TO WIRE
Connector Color WHITE	olor WHITE		Connector Color WHITE	WHITE		Connector Color WHITE	lor WHITE	
H.S.	8 4 3 2 7 8 9 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2	H.S.	10 9 8 7	0 0 1	H.S.	6 5 4 0	9 8 7 1
		]						
Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	olor of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
7	GR	TURN(+)	ιΩ	В	ı	4	8	1
8	В	TURN(-)		_				

Г		2	
굾	2	9	
IK	3 2	9 2	
	-	. 8	
L	4	8	



Signal Na	TURN(+)	TURN(-)	
Color of Wire	GR	В	
Terminal No.	7	8	

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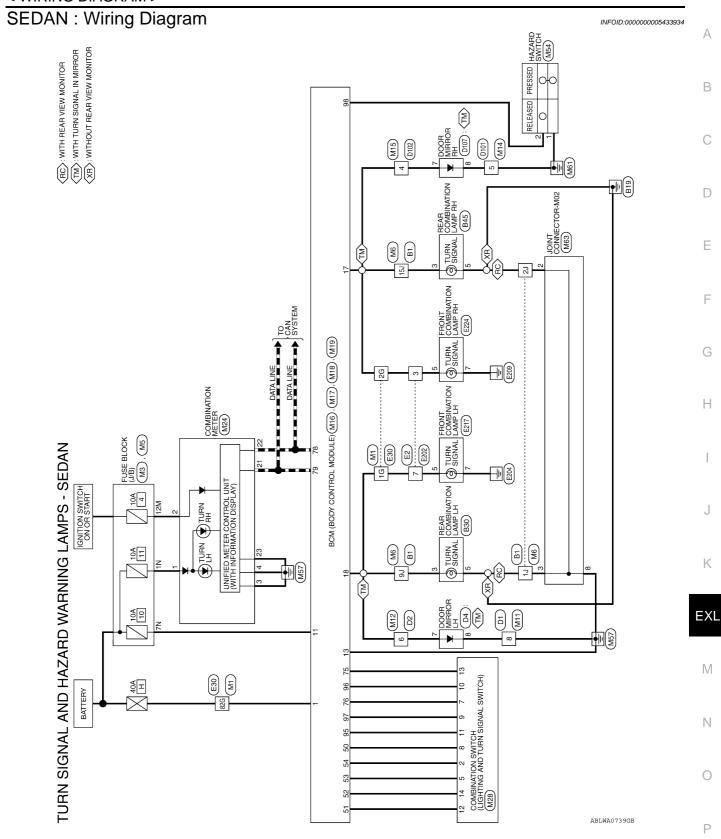




Signal Name	TURN(+)	TURN(-)
Color of Wire	Μ	В
Terminal No.	7	8

**SEDAN** 

ABLIA2055GB



# TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS - SEDAN

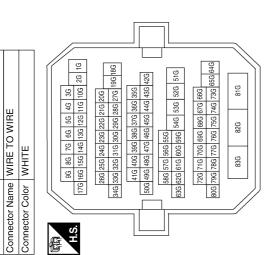
Ξ

Connector No.

Connector Name FUSE E	Connector Name FUSE BLOCK (J/B) Connector Color WHITE
原 H.S.	3N

NH NG NG N/ N8	Signal Name	ı	=
N.	Color of Wire	M/L	Y/R
	Terminal No. Wire	Z	NZ

Signal Name	1	1	1	
Color of Wire	G/Y	G/B	M/B	
Ferminal No.	1G	2G	82G	



M5	Connector Name FUSE BLOCK (J/B)	WHITE
Connector No.	Connector Name	Connector Color WHITE



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### < WIRING DIAGRAM >

Connector No.   M11	Connector No. M15 Connector Name WIRE TO WIRE Connector Color WHITE  Terminal No. Wire  A G/B  A G/B  Connector No. Wire  A G/B  Connector No. M15  Signal Name   A G/B
Signal Name	E TO WIRE  TE  Signal Name
Terminal No. Mire  1.0 B  2.1 B  9.1 G/Y  15.1 G/B	nnector No. M14 nnector Color WHI ninal No. Color of S
Connector No.   M6   Connector Name   WIRE TO WIRE   Connector Color   WHITE   Superior   Superio	Connector No. M12 Connector Name WIRE TO WIRE Connector Color MHITE Connector Color of Signal Name 6 G/Y - 5  Terminal No. Color of Signal Name 6 G/Y - 5  Terminal No. Color of Signal Name 6 G/Y - 5  Terminal No. Color of Signal Name 7  Terminal No. Color of Signal Name 7  Terminal No. Color of Signal Name 8

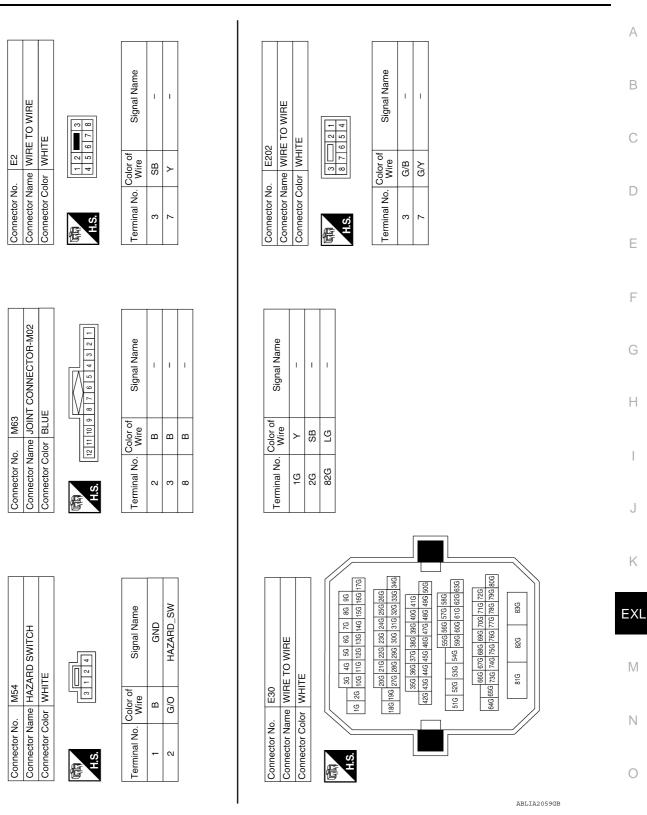
Revision: September 2009 EXL-165 2010 Altima

### < WIRING DIAGRAM >

Connector No.   M17	Connector No.   M16   MODULE)		S. 111213	Color of Signal Name Signal Na	Y/R BAT_	В	G/B		LG/R	$54$ G/Y INPUT_4		COMBINATION METER Connector Name			7 8 9 10 11 12 13	61 60 81 80	Color of	Wire Signal Name 5 LG/R OUTPUT	W/L BAT 7 R/G INPUT_3				L CAN-H 11 R/W	P CAN-L 12 L/W OUTPUT		
---------------------	-------------------------------	--	-----------	--	----------	---	-----	--	------	------------------	--	----------------------------------	--	--	-------------------	----------------	----------	--------------------------------	-----------------------	--	--	--	----------------	-----------------------	--	--

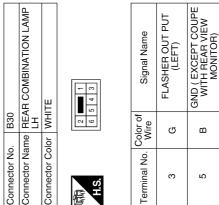
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### < WIRING DIAGRAM >



Revision: September 2009 EXL-167 2010 Altima

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Connector No. B30 Connector Name REAR (LH Connector Color WHITE	B30 REAR COMBINATION LAMP LH WHITE
	330
Connector Name	Connector Name REAR COMBINATION LAMP
Connector Color	WHITE

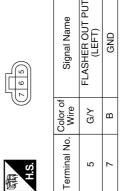
Connector Name   REAR COMBINAT   LH	WHITE	5 0 4 2 - 8	r of Signal N
me			Color of
Connector Na	Connector Color	所 H.S.	Terminal No.

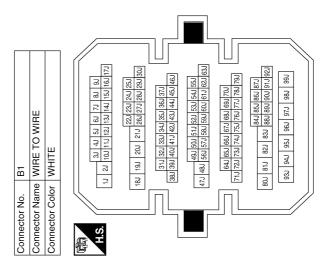
Connector No.	E224
Connector Name	Connector Name FRONT COMBINATION LAMP RH (WITH SEDAN)
Connector Color GRAY	GRAY

Signal Name	FLASHER_OUT_PUT (RIGHT)	GND	
Color of Wire	G/B	В	
Terminal No.	5	7	

Signal Name	– ( EXCEPT COUPE WITH REAR VIEW MONITOR)	1	_	ı
Color of Wire	В	В	В	BR
Terminal No. Wire	1.1	2J	6	15J

E217	Connector Name   FRONT COMBINATION   LAMP LH (WITH SEDAN)	GRAY	
Connector No.	Connector Name	Connector Color GRAY	





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### < WIRING DIAGRAM >

Connector No. B45	). B45	10	Connector No. D1	lo. D1		Connector No. D2	o. D2		
Connector Na	ıme RE/	Connector Name REAR COMBINATION LAMP	Connector N	Connector Name WIRE TO WIRE	TO WIRE	Connector Name WIRE TO WIRE	ame WIRE	E TO WIRE	
Connector Color WHITE	lor WH	IITE	Connector C	Connector Color WHITE	щ	Connector Color WHITE	olor WHIT	щ	
			The state of the s	4					
H.S.	4 0	5 4 3	H.S.	16 15 14 13	12 11 10 9 8	H.S.	8 7 6 5 4 16 15 14 13 12	12 11 10 9	
						J			
Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	
ď	BB	FLASHER OUT PUT	8	В	1	9	GR	1	
)	i	(RIGHT)							ı
5	В	GND							

Connector No.	D4	Connector No. D101	101	Connector No. D102	D102
Connector Name	Connector Name DOOR MIRROR LH	Connector Name WIRE TO WIRE	IRE TO WIRE	Connector Na	Connector Name WIRE TO WIRE
Connector Color WHITE	WHITE	Connector Color WHITE	HITE	Connector Color WHITE	or WHITE
原 H.S.	8 4 8 7 8 5 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 2	H.S.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	哥 H.S.	6 5 4 3 2 1 1 10 9 8 7 7
Terminal No. Color of Wire	or of Signal Name	Terminal No.   Color of Wire	of Signal Name	Terminal No. Wire	Color of Signal Name
7 G	GR TURN(+)	S	1	4	- M
8	B TURN(-)				_

Г	-	2	]	logoio
7	2	9		
\	3	7		JC.
Ì	4	8		Color of



Signal	TUR	TUR	
Color of Wire	GR	В	
Terminal No.	7	8	

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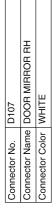
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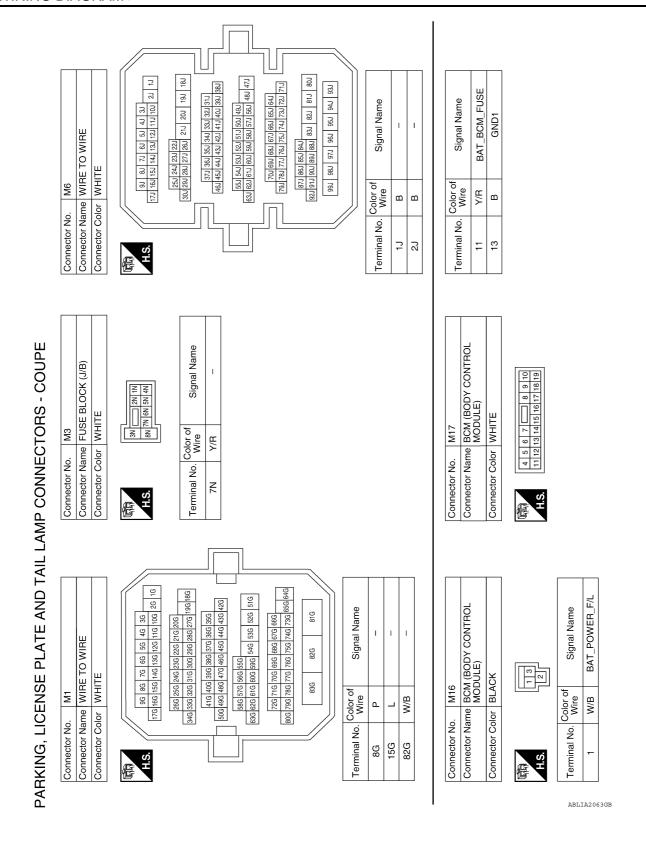


Signal Name	TURN(+)	TURN(-)
Color of Wire	Μ	В
Terminal No.	7	8

ABLIA2062GB

### < WIRING DIAGRAM > PARKING, LICENSE PLATE AND TAIL LAMPS Α **COUPE COUPE: Wiring Diagram** INFOID:0000000005433935 В IPDM E/R (INTELLIGENT DISTRIBUTION MODULE ENGINE ROOM) (E17), (E18), (E201) JOINT CONNECTOR-E04 (E22) С (RC): WITH REAR VIEW MONITOR (XR): WITHOUT REAR VIEW MONITOR ON OR START JOINT CONNECTOR-E03 (E21) D M1 15A 42 CPU Е 15A 43 FRONT COMBINATION LAMP RH (E246) F (a) PARKING G FRONT COMBINATION LAMP LH (E245) PARKING Н 10A TAIL LAMP RELAY JOINT CONNECTOR-B06 (B21) JOINT CONNECTOR-T01 (T5) JOINT CONNECTOR-T02 47 47 -QQ B48 J PARKING, LICENSE PLATE AND TAIL LAMPS - COUPE Κ **P** REAR COMBINATION LAMP RH (B45) JOINT CONNECTOR-M02 (M63) EXL FUSE BLOCK (J/B) (M3), (B4), (E6) TAIL 2J M REAR COMBINATION LAMP LH BCM (BODY CONTROL MODULE) (M1B), (M17), (M18), (M19) COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) (M28) Ν [B] [B] (C) TAIL 0 ₽ 10 10 Р E30 4 40<del>4</del> 1 BATTERY

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### < WIRING DIAGRAM >

	BCM (BODY CONTROL MODULE) GREEN	Connector Name Connector Color		BCM (BODY CONTROL MODULE) BLACK	Connector Name	Solor WHITE	NATION
00		H.S.	1	C   C   C   C   C   C   C   C   C   C	H.S.	7 8 9	10 11 12 13 14
36 35 34 33 32 3 56 55 54 53 52 8	31 30 29 28 27 26 25 24 23 22 21 51 50 49 48 47 46 45 44 43 42 41	20	74 73 72 94 93 92	71 70 69 68 67 66 65 64 63 62 61 60	Terminal No.	Color of Wire	Signal Name
			-		2	G/Y	OUTPUT 4
ninal No. Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	വ	LG/R	OUTPUT 3
LG/B	INPUT 5	75	В/Y	OUTPUT 5	7 0	B/G	
N_	INPUT 1	92	R/G	OUTPUT 3	φ	LG/B	OUIPUI 5
G/B	INPUT 2	78	Ь	CAN-L	9 5	8/R	INPU Z
LG/R	INPUT 3	79	٦	CAN-H	2 =	R/W	INPUL 4
Zy	INPUT 4	95	₩.	OUTPUT 1	2	3	OITPIT 1
		96	P/B	OUTPUT 4	i 6.	₽V	INPLITS
		97	B/B	OUTPUT 2	5 4	G/B	OUTPUT 2
		-					
ector No. M63		Connector No.	E9		Connector No.		
nector Name JOINT	nector Name JOINT CONNECTOR-M02	Connector Name FUSE E	me FUS	Connector Name FUSE BLOCK (J/B)	Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION
_	1	ן ן			Connector Color		MODULE ENGINE ROOM) WHITE
12 11 10 9	8 7 6 5 4 4 3 2 2 1	H.S.	7P 6P 5P 4	77P 6P 6P 4P 7 7 7 1 6P 19 19 19 19 19 16P 15P 14P 13P 12P 11P 10P 9P 8P	E ST	42 41 40	40 33
Color of		Terminal	Color of	Signal Name		46 46	46 45 44 43
Wire	oighal naine		Wire		ON IonimacT	Color of	
В	ı	9b	GR	1			)   
В	I				39	۵	CAN-L
В	-				40	_	CAN-H
					41	В	GND (SIGNAL)

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Connector No.   E21	No. Color of Signal Name P	
Connector No. Connector Color Connector Color H.S. 1 1 2	8G 82G 82G	
Terminal No. Color of Signal Name 7 GR TAIL/ILLUMI 12 B GND (POWER) 35 36	Connector No. E30  Connector Name WIRE TO WIRE  Connector Color WHITE  To 26 106 116 126 136 146 156 166 176  206 216 226 226 246 256 266  166 196 276 286 289 306 316 280 346  356 386 376 386 386 376 386 386 376 386  516 526 536 576 386 576 586 576 586  516 526 536 576 586 576 586 576 586  516 526 586 576 586 576 586 576 586  517 526 586 576 586 576 586 576 586  518 586 576 576 576 576 576 586  519 586 576 576 576 576 576 576 576 586  519 586 576 576 576 576 576 576 576 576 576 57	
Connector No. E18  Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)  Connector Color WHITE  H.S.  10 11 12 13 14 3 4 5 6 7 8 115161718191 2021222324  E526272829 3031323334  E5161718191 2021222324	Connector No. E22 Connector Name JOINT CONNECTOR-E04 Connector Color of MHITE  Terminal No. Color of Signal Name  2 P	GB

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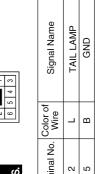
### < WIRING DIAGRAM >

POWER DISTRIBUTION   PROME DISTRIBUTION   PROME DISTRIBUTION   POWER DISTRIBUTION   PROME DISTRIBUTION   PART OF IT IN THE PART OF IT IN THE PROME DISTRIBUTION   PART OF IT IN THE P	Connector No. E246 Connector Name FRONT COMBINATION LAMP RH (WITH COUPE) Connector Color GRAY	Terminal No. Color of Signal Name 10 G/B - 11 B - 11 B	Connector No. B4 Connector Name FUSE BLOCK (J/B) Connector Color BROWN  Terminal No. Color of Signal Name  4T L — —	
PDM E/R (INTELLIGENT   PDM E/R   PDM	SINT COMBINATION IP LH (WITH COUPE)	Signal Name -	Signal Name  - (COUPE WITH REAR VIEW MONITOR)  - (EXCEPT COUPE WITH REAR VIEW MONITOR)	
PDM ER (INTELLIGENT POWER DISTRIBUTION WHITE   Signal Name   Signal Na			Color of Wire B/W B/W	
PDM E/R (INTELLIGING POWER DISTRIBUTION	Conne	Termii 1		
	nector No.		20 VIRE 22 23 23 24 15 16 17 18 14 15 16 17 18 14 15 16 17 18 14 15 16 17 18 14 15 18 14 15 18 14 15 18 14 15 18 18 18 18 18 18 18 18 18 18 18 18 18	E

Revision: September 2009 EXL-175 2010 Altima

### < WIRING DIAGRAM >

Connector No.	B45
Connector Name	Connector Name REAR COMBINATION LAMP RH
Connector Color WHITE	WHITE



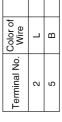


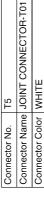




Signal Name	I	I	I
Color of Wire	В/У	В	В
Terminal No.	1	3	4



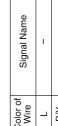


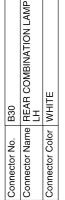




H.S.	

	-	6		
	2	10		
7	3	-	1	









Signal Name	TAIL LAMP	GND (EXCEPT COUPE WITH REAR VIEW MONITOR)	GND (COUPE WITH REAR VIEW MONITOR)
Color of Wire	٦	В	B/W
Terminal No.	2	5	2



Connector Name WIRE TO WIRE

B48

Connector No.



Sig		
Color of Wire	Γ	B/Y
Terminal No.	-	8





Signal Name	I	-	1	ı	
Color of Wire	7	Т	٦	٦	
Terminal No. Wire	7	8	10	11	

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			9	4	
		V	2	13	
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1	⇟		2	10	
ť	_		<u> </u>	6	
	Connector Color   WHITE	6	O II	2	,



Signal Name	1	I	
Color of Wire	Γ	В	
Terminal No.	1	8	

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### < WIRING DIAGRAM >

Connector No.

3   2   1   1		H.S. Terminal No.
1 1		- 2
	Color of Wire	Terminal No.
	4	H.S.
WHITE		Connector Color
Connector Name JOINT CONNECT	Ime JOI	Connector Na

_	_	_	1			$\overline{}$
	Connector Name LICENSE PLATE LAMP RH	NWC		Signal Name	TAIL LAMP	ane
. T8	me LICI	lor BRC		Color of Wire	_	В
Connector No.	Connector Na	Connector Color BROWN	H.S.	Terminal No.	-	6

	Connector Name LICENSE PLATE LAMP LH	NWC	2 1	Signal Name	TAIL LAMP	GND
). T6	ume LIC	lor BR		Color of Wire	٦	В
Connector No.	Connector Na	Connector Color BROWN	(京) H.S.	Terminal No.	1	2

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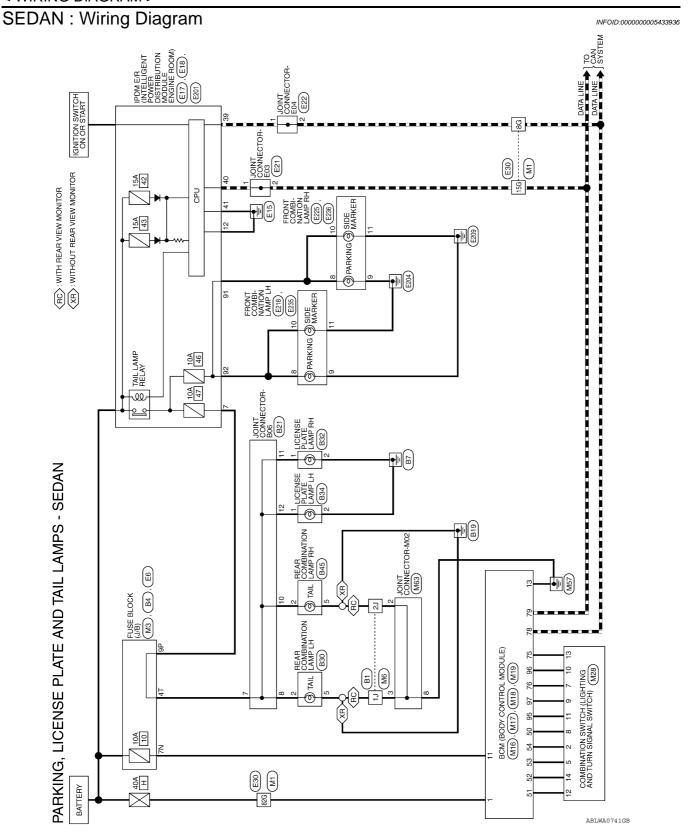
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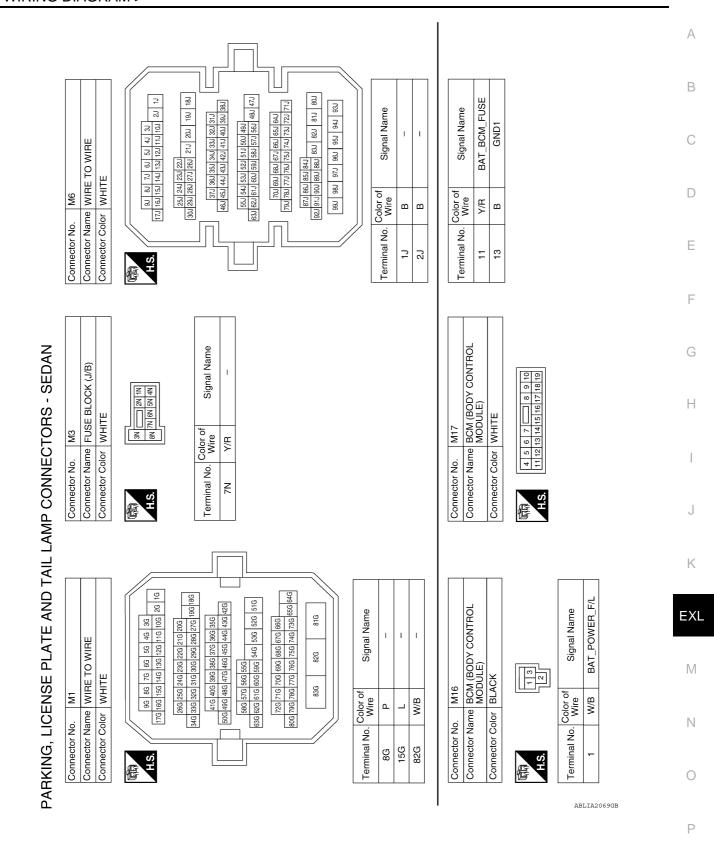
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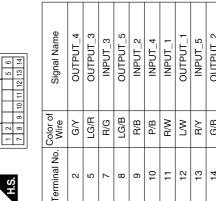
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**EXL-177** Revision: September 2009 2010 Altima

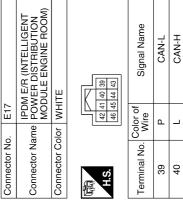


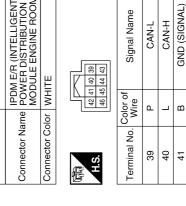




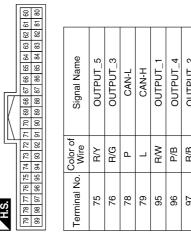








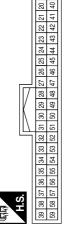
Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK



)	OUTPUT_5	OUTPUT_3	CAN-L	CAN-H	OUTPUT_1	OUTPUT_4	OUTPUT_2	
200	R/Y	B/G	Ь	٦	R/W	P/B	B/B	
	75	9/	78	6/	96	96	26	

	Connector Name FUSE BLOCK (J/B)		77 (8) (8) (4) (13) (13) (14) (15) (14) (15) (14) (13) (13) (13) (13) (13) (13) (13) (13	Signal Name	1
Ee	me FUS	lor WH	7P 6P 5P 4P C	Color of Wire	GR
Connector No.	Connector Na	Connector Color WHITE	斯 H.S.	Terminal No.	9P

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



Signal Name	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4	
Color of Wire	LG/B	~\	G/B	LG/R	G/Y	
Terminal No. Wire	20	51	52	53	54	

<b>m</b>	Connector Name JOINT CONNECTOR-M02	E E	8 7 6 5 4 3 2 1	Signal Name	1	_	ı
). M63	IMe JOI	olor BLI	12 11 10 9	Color of Wire	В	В	В
Connector No.	Connector Na	Connector Color BLUE	H.S. 12	Terminal No. Wire	2	3	8

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# PARKING, LICENSE PLATE AND TAIL LAMPS

# < WIRING DIAGRAM >

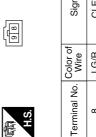
	А
Connector No.   E21	В
JOINT CONN WHITE Or of Sign Sign Sign Sign Sign Sign Sign Sign	С
Connector No. E21 Connector Name JOINT Connector Color of H.S.  Terminal No. Wire BG P L L B2G L L L B2G L L B2G LG	D
Connector Na Connector Na Connector Na Connector Na Land Na Terminal No. 86 86 86 826	Е
(a)	F
E30   MHITE	G
Car of   C	Н
minal No. G	I
1   1   1   1   1   1   1   1   1   1	J
Table   Tabl	K
PDM E/R (INTELLIGENT   POWER DISTRIBUTION   MODULE ENGINE ROOM)   WHITE	EXL
E18 POWER L MODULE WHITE Or of Real 14 Real 14 Real 14 Real 18 Real 14 Real 18	M
ctor Nc	Ν
Conne	0
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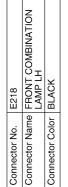
Revision: September 2009 EXL-181 2010 Altima

Connector Name FRONT COMBINATION LAMP RH Connector Color BLACK	E225
Connector Color BLACK	ne FRONT COMBINATIC
	or BLACK









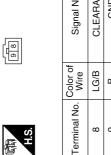
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

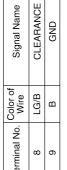
Connector Name

E201

Connector No.

Connector Color WHITE



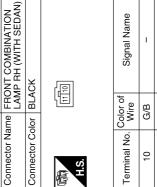


				,
106 105 104 103 102 101 100 99	Signal Name	CLEARANCE_RH	CLEARANCE_LH	
06 105 104 1	Color of Wire	LG/R	LG/B	
	Terminal No.	91	92	



E236

Connector No.





Color of Wire	g/9	В
Terminal No.	10	11

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	E235 LAMP LH (WITH SEDAN BLACK	Connector No. Connector Name Connector Color
Connector No. E235  Connector Name FRONT COMBINATION LAMP LH (WITH SEDAN) Connector Color BLACK		
е	BLACK	onnector Color
	FRONT COMBINATION LAMP LH (WITH SEDAN	onnector Name
	E235	onnector No.



Signal Na	_	ı
Color of Wire	У	В
Terminal No.	10	11

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# PARKING, LICENSE PLATE AND TAIL LAMPS

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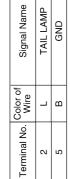
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## < WIRING DIAGRAM >

Revision: September 2009 EXL-183 2010 Altima

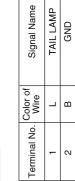
B45	Connector Name   REAR COMBINATION LAMP   RH	WHITE
Connector No.	Connector Name	Connector Color WHITE





B34	Connector Name LICENSE PLATE LAMP LH	BROWN	
Connector No.	Connector Name	Connector Color BROWN	





ABLIA2074GB

# STOP LAMP

**COUPE** 

**COUPE**: Wiring Diagram

INFOID:0000000005433937

⟨M⟩: WITH MT
⟨RC⟩: WITH REAR VIEW MONITOR
⟨VŢ⟩: WITH CVT
⟨XF⟩: WITHOUT REAR VIEW MONITOR

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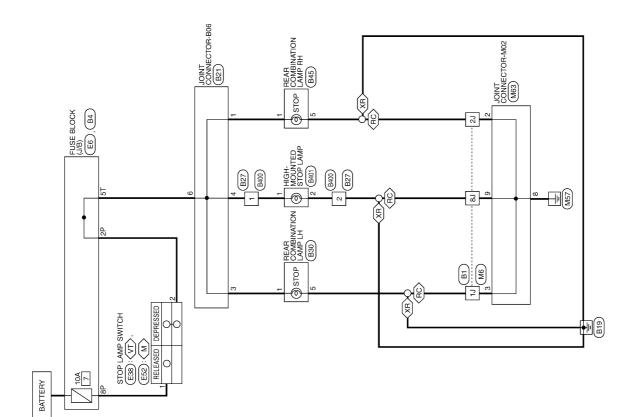
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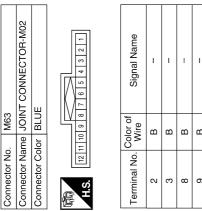
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STOP LAMP - COUPE

# STOP LAMP CONNECTORS - COUPE

Connector Name WIRE TO WIRE Connector Color WHITE

Connector No.

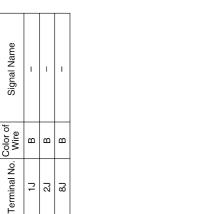


Signal Name	1	ı	ı	-
Color of Wire	В	В	В	В
Terminal No. Wire	2	ဇ	æ	9

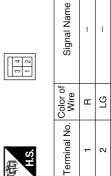
Signal Name	1	_	I	_
Color of Wire	В	В	В	В
Terminal No. Wire	7	3	8	6





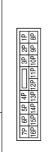


E38	Connector Name STOP LAMP SWITCH (WITH CVT)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	









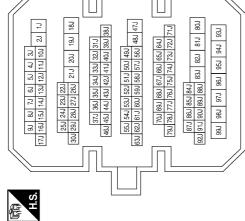
Connector Name FUSE BLOCK (J/B)

**E**6

Connector No.

Connector Color WHITE

Signal Name	ı	ı	
Color of Wire	Ь	ш	
Terminal No.	2P	8P	



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Connector No. B4 Connector Name FUSE BLOCK (J/B)	Connector Color BROWN	57 47 37 27 17 127 117 101 97 87 77 67			No.	5T 0 -					DOOR CASE NO.	Connector Name REAR COMBINATION LAMP		[五] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	Terminal No. Wire Signal Name	1 O STOP LAMP	GND (EXCEPT COUPE 5 B WITH REAR VIEW		5 B/W GND (COUPE WITH REAR VIEW MONITOR)
Signal Name	- ( COUPE WITH REAR VIEW MONITOR)	- (EXCEPT COUPE WITH REAR VIEW MONITOR)	I	1								TOWIRE	Э		Signal Name		ı		
Terminal No. Wire	1J B/W	1J. B	2J B	8J B								Connector No. B27	Connector Color WHITE		Terminal No. Color of Mira	-			
Connector No. B1 Connector Name WIRE TO WIRE	Connector Color WHITE	10 18 17 18 18 18 18	11.1 12.1 13.1 14.1 15.1		18J 19J 20J 21J 28J 29J 29J 29J 29J 29J 29J 29J 29J 29J 29	120   120	129   129   110   110   120   125	164   164	80. 81. 82. 83. 88. 98. 90. 91. 91. 91. 91. 91. 91. 91. 91. 91. 91	[86] [86] [726] [86] [87] [88] [88]		Connector No. B21 Connector Name   JOINT CONNECTOR-B06		H.S. (12 11 10 9 8 7 6 5 4 3 2 1]	Terminal No.   Color of   Signal Name   Ter			- 0 4	0 9

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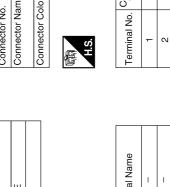
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1	Connector Name HIGH-MOUNTED STOP LAMP (WITHOUT REAR SPOILER)	ТЕ	<u>-2</u>	Signal Name	STOP_LAMP	GND
. B401	me HIG	lor WH		Color of Wire	0	В
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.	1	2



0	IE TO WIRE	TE	( <del>                                      </del>	Signal Name	-	1
. B400	me WIR	lor WHITE		Color of Wire	0	В
Connector No.	Connector Name WIRE TO WIRE	Connector Color	H.S.	Terminal No. Wire	1	2

lo. B45	ame REAR COMBINATION LAMP	olor WHITE	6 2 5 4 3 1	Color of Signal Name	O STOP LAMP	
Connector No.	Connector Name	Connector Color	原 H.S.	Terminal No.	1	L

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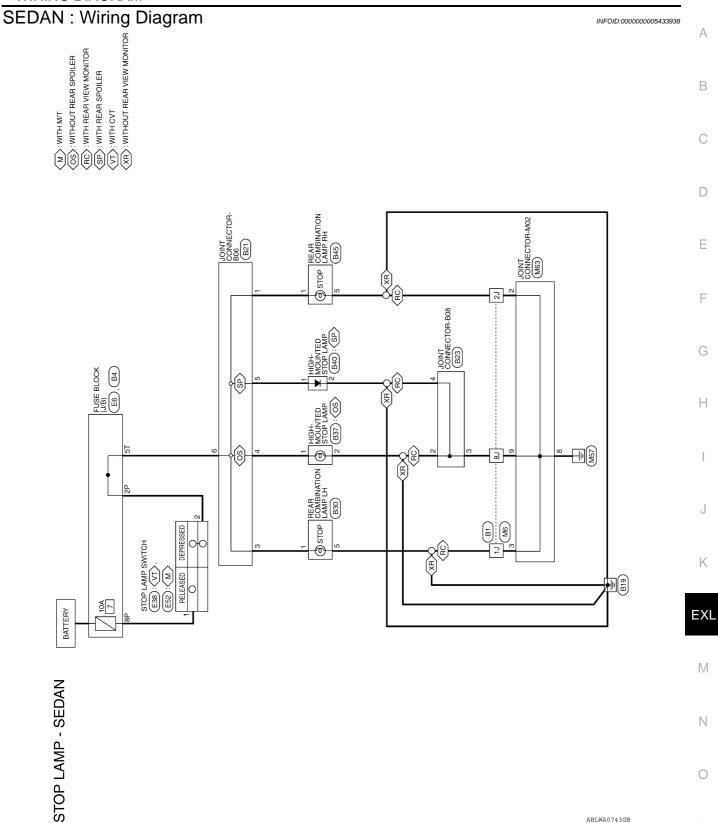
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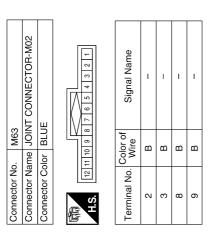
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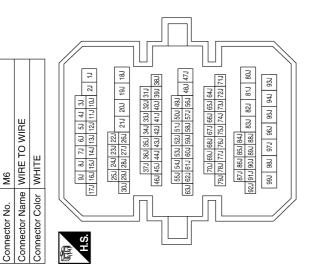


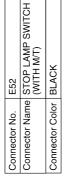
**EXL-189** Revision: September 2009 2010 Altima

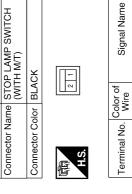
# STOP LAMP CONNECTORS - SEDAN



Signal Name	I	ı	_	
Color of Wire	В	В	В	
Terminal No.	11	23	8.1	







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I	В	-
Signal Name	Color of Wire	Terminal No.
\( \begin{array}{c} \omega & \dots \\ 4 & \omega & \dots \\ \end{array} \]		师 H.S.
IITE	olor WF	Connector Color WHITE
Connector Name STOP LAMP SWITCH (WITH CVT)	sme ST (W	Connector Na
8	). E38	Connector No.

Connector No.	E6
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	WHITE
(下)	6P   5P   4P    3P   2P   1P   15P   14P   13P   12P   11P   10P   9P   8P

Signal Name	1	1	
Color of Wire	Ь	ш	
erminal No.	2P	8P	

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B4   FUSE BLOCK (J/B)   BROWN	B30 REAR COMBINATION LAMP LH WHITE	1 4 m	Signal Name	STOP LAMP	GND ( EXCEPT COUPE	MONITOR)		
Connector No. B4 Connector Name FUSE Connector Color BROW H.S. Tat III IIII Terminal No. Wire  5T O	Connector No. B30 Connector Name REAR (LH Connector Color WHITE	H.S.	Terminal No. Wire	-0		n 0		
Signal Name  - ( EXCEPT COUPE WITH REAR VIEW MONITOR)	B23 JOINT CONNECTOR-B08 WHITE	043210	Signal Name	1	ı	1		
Color of Wire B B B B B	o. B23 ame JOINT olor WHITE	4	Color of Wire	В	В	В		
No. 1J 88J	Connector No. Connector Name	H.S.	Terminal No.	2	3	4		
WIRE TO WIRE	T CONNECTOR-B06	7 6 5 4 3 2 1	Signal Name	ı	-	ı	-	ı
B1	me JOINT	12 11 10 9 8	Color of Wire	0	0	0	0	0
Connector No. B1 Connector Name WIRE TO WI Connector Color WHITE  14 24 14 54 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 15 14 15 15 14 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Connector No. B21 Connector Name JOINT CONN Connector Color BLUE	(南) H.S.	Terminal No.	-	က	4	5	9

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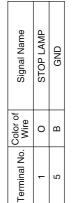
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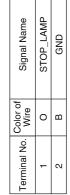
Connector No.	B45
Connector Name	Connector Name REAR COMBINATION LAMP RH
Connector Color WHITE	WHITE

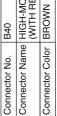














	Signal Name	STOP_LAMP	GND
	Color of Wire	0	В
	al No.		

Connector No.	B37
Connector Name	Connector Name HIGH-MOUNTED STOP LAMP (WITHOUT REAR SPOILER)
Connector Color WHITE	WHITE



Terminal

ABLIA2080GB

# < WIRING DIAGRAM > **BACK-UP LAMP** Α **COUPE COUPE**: Wiring Diagram INFOID:0000000005433939 \(\lambda\) \\(\text{M}\) \\\(\text{WITH MT}\) \\(\text{RC}\) \\\(\text{WITH REAR VIEW MONITOR}\) \\(\text{VC}\) \: \(\text{EXCEPT VQ35DE WITH CVT}\) \\(\text{VR}\) \\\(\text{WITH QH25DE AND CVT}\) \\(\text{VX}\) \\(\text{WITH QH25DE AND CVT}\) \\(\text{XR}\) \\(\text{WITHQUT REAR VIEW}\) \\(\text{MONITOR}\) В С D Е F JOINT CONNECTOR-B07 (B22) G BACK-REAR COMBINATION LAMP LH (B30) Н BACK-M6 M6 BACK-UP LAMP SWITCH F24 J 8 OFF Κ FUSE BLOCK (J/B) (M5) **EXL** 4 IGNITION SWITCH ON OR START M BACK-UP LAMP - COUPE Ν 0 Р

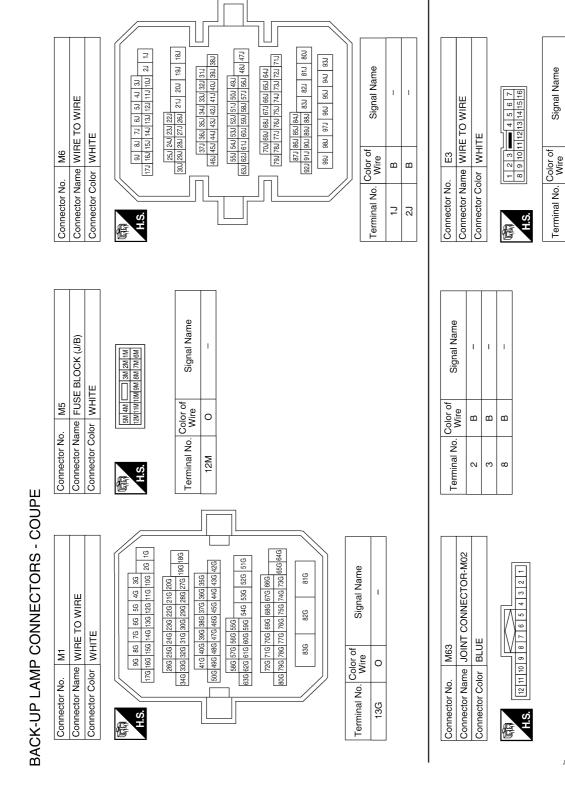
**EXL-193** Revision: September 2009 2010 Altima

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Signal Name

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**EXL-194** Revision: September 2009 2010 Altima

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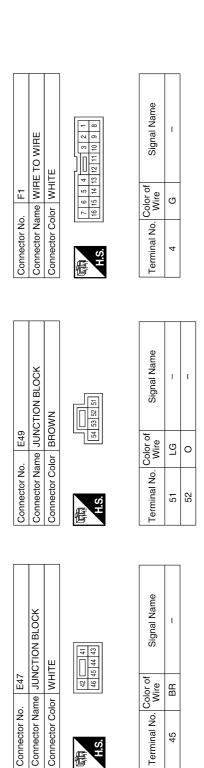
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		Connector No. E34 Connector Name BACK-UP LAMP RELAY Connector Color BLUE  Terminal No. Wire Signal Name  1 0	
Connector No. E29  Connector Color WHITE  Connector Color WHITE	Terminal No. Wire Signal Name	Terminal No. Wire Signal Name 13G BR –	
Connector No. E11 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Color of Signal Name 3 BR – 8 W –	Connector No. E30  Connector Name WIRE TO WIRE  Connector Color WHITE  Connector Color WHITE  Connector Color WHITE  16 26 106 116 126 136 146 156 166 176  206 276 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 276 286 286 276 286 286 276 286 286 276 286 286 276 286 286 276 286 286 276 286 286 286 286 286 286 286 286 286 28	

Revision: September 2009 EXL-195 2010 Altima



Connector No.   F25	Connector Name BACK-UP LAMP SWITCH	Connector Color BLACK	Connector Color BLACK	(2 1) H.S. (8 4 3 7)	Terminal No. Color of Signal Name Terminal No. Wir.	
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Signal Name

Color of Wire

Terminal No.

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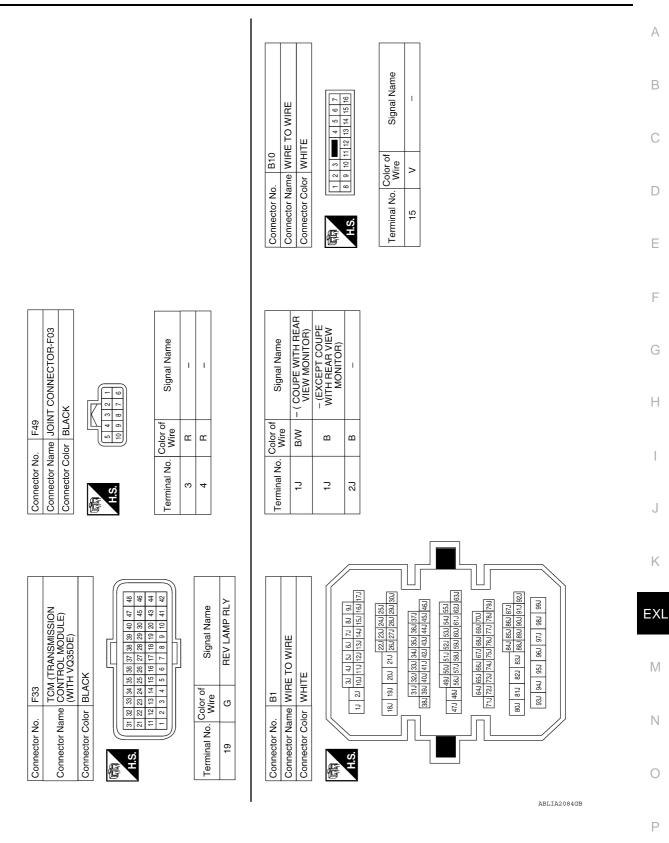
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Connector Name WIRE TO WIRE

Connector No.

Connector Color | WHITE

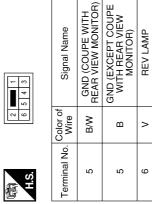


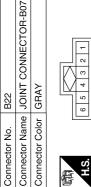
Revision: September 2009 EXL-197 2010 Altima

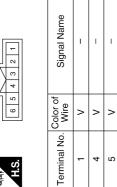
Connector Name REAR COMBINATION L RH Connector Color WHITE	
Connector Name REAR COMBINATION L RH Connector Color WHITE	
Connector Color WHITE	Connector Name REAR COMBINATION LAMP RH
	nnector Color WHITE





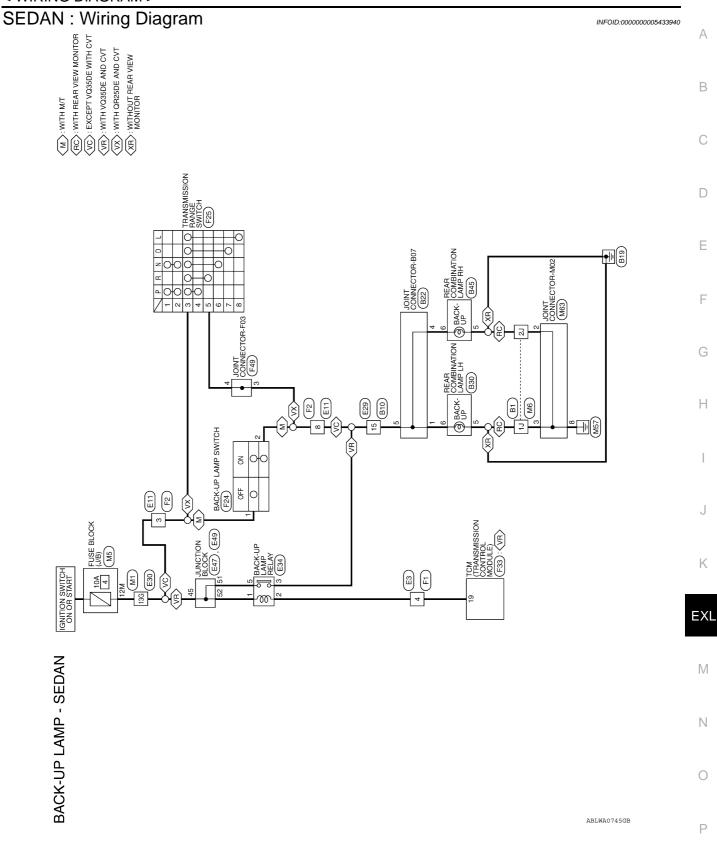




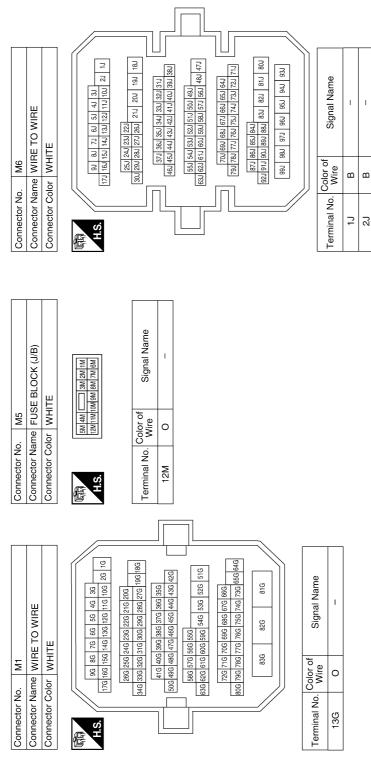




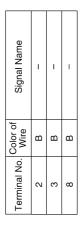
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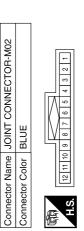






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Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	(南) H.S.	Terminal No. Wire	4





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Connector No.

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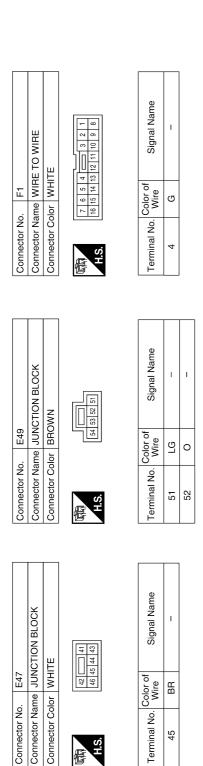
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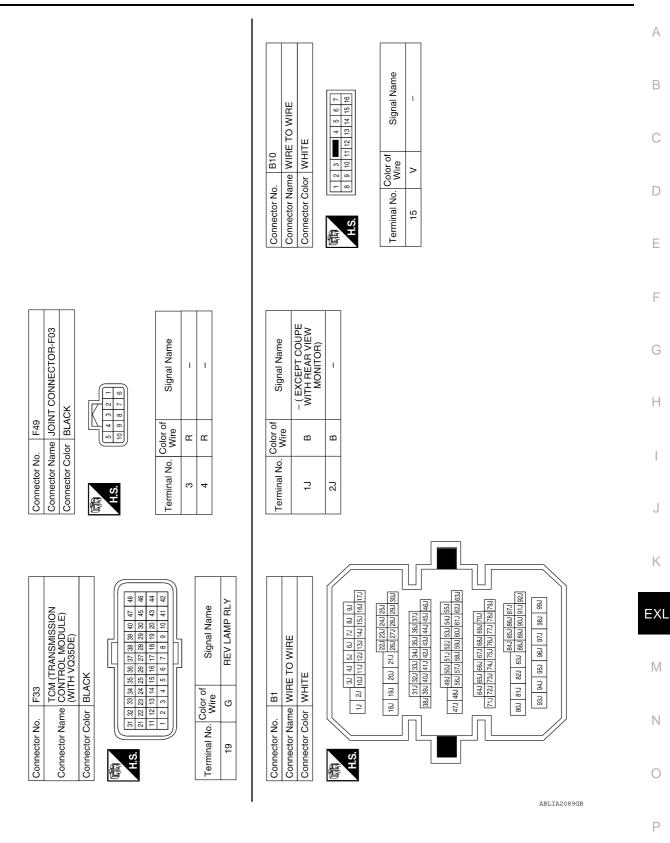
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Connector No.	o. F2		U	Connector No. F24	F24			Connector No.	). F25	
Connector Name WIRE TO M	ame WIR	E TO WIRE	10	Connector Nar	ne BAC	Connector Name BACK-UP LAMP SWITCH	•	Connector Na	me TRA	Connector Name TRANSMISSION RANGE
Connector Color WHITE	olor WHI	1	0	Connector Color BLACK	or BLAC	X	,		S. C.	E   E
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Terminal No. Wire	Color of Wire	Signal Name		Color of Wire	Color of Wire	Signal Name		Terminal No. Wire	Color of Wire	Signal Name
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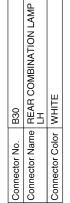
Connector No.	B45
Connector Name	Connector Name REAR COMBINATION LAMP RH
Connector Color WHITE	WHITE







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Signal Name	GND (EXCEPT COUPE WITH REAR VIEW MONITOR)	REV LAMP
Color of Wire	В	>
Terminal No. Wire	S	9







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Terminal No.	-	4	9

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## **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

# **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

Symptom Table INFOID:0000000005433954

#### **CAUTION:**

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

Symp	otom	Possible cause	Inspection item
Headlamp does not switch to the high beam.	One side	Fuse     Harness between IPDM E/R and the front combination lamp     Front combination lamp (High beam relay)     IPDM E/R	Headlamp (HI) circuit Refer to <u>EXL-40</u> .
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS DO N Refer to EXL-208.	OT SWITCH TO HIGH BEAM"
High beam indicator lamp (Headlamp switches to the		Combination meter     BCM	Combination meter.     Data monitor "HI-BEAM IND"     BCM (HEAD LAMP)     Active test "HEADLAMP"
	One side	Front combination lamp (Low beam relay)	_
Headlamp does not switch to the low beam.		Combination switch     Harness between the combination switch and BCM     BCM	Combination switch Refer to BCS-10.
	Both sides	High beam request signal  BCM IPDM E/R	IPDM E/R Data monitor "HL HI REQ"
		IPDM E/R	_
Headlamp does not turn ON.	One side	Fuse     Bulb     Harness between IPDM E/R and the front combination lamp     Front combination lamp     IPDM E/R	Headlamp (LO) circuit Halogen, refer to EXL-42. Xenon, refer to EXL-44
	Both sides	Symptom diagnosis "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-209, "Description".	
	When the ignition switch is turned ON	BCM     Combination switch	Combination switch Refer to <u>BCS-10</u> .
Headlamp does not turn OFF.	The ignition switch is turned OFF (After activating the battery saver).	IPDM E/R	_
Headlamp is not turned Of	N/OFF with the lighting	Combination switch     Harness between the combination switch and BCM     BCM	Combination switch Refer to BCS-10.
switch AUTO.	-	Optical sensor     Harness between the optical sensor and BCM     BCM	Optical sensor Refer to <u>EXL-53</u> .

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# **EXTERIOR LIGHTING SYSTEM SYMPTOMS**

# < SYMPTOM DIAGNOSIS >

Symp	otom	Possible cause	Inspection item
Daytime light system does not activate.		<ul> <li>Either high beam bulb</li> <li>Parking brake switch</li> <li>Combination switch</li> <li>BCM</li> <li>IPDM E/R</li> <li>Daytime light relay</li> <li>Harness between IPDM E/R and daytime light relay.</li> </ul>	Daytime light system description. Refer to EXL-11, "System Description".
Front fog lamp is not turned ON.	One side	Front fog lamp bulb     Harness between IPDM E/R and the front combination lamp     Front combination lamp     IPDM E/R	Front fog lamp circuit Refer to EXL-46.
	Both side	Symptom diagnosis "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-211.	
Parking lamp is not turned ON.	One side	Fuse     Parking lamp bulb     Harness between IPDM E/R and the front/rear combination lamp     Front/rear combination lamp     IPDM E/R	Parking lamp circuit Refer to <u>EXL-48</u> .
	Both sides	Symptom diagnosis "PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-210.	
Turn signal lamp does not blink.	Indicator lamp is normal. (The applicable side performs the high flasher activation).	Harness between BCM and each turn signal lamp     Turn signal lamp bulb     Door mirror (if equipped with turn signals in the door mirrors)	Turn signal lamp circuit Refer to EXL-50.
Turn signal indicator lamp does not blink.	One side	Combination meter	_
	Both sides (Always)	Turn signal indicator lamp signal Combination meter BCM	Combination meter.     Data monitor "TURN IND"     BCM (FLASHER)     Active test "FLASHER"
	Both sides (Does blink when activating the hazard warning lamp with the ignition switch OFF)	The combination meter power supply and the ground circuit Combination meter	Combination meter Power supply and the ground circuit Refer to MWI-47.

#### NORMAL OPERATING CONDITION

#### < SYMPTOM DIAGNOSIS >

# NORMAL OPERATING CONDITION

Description INFOID:0000000005433955

#### XENON HEADLAMP

- The brightness and color of the light may vary slightly immediately after turning the headlamp ON. This condition will remain until the xenon bulb becomes stable. This is normal.
- Illumination time lag may occur between right and left. This is normal.

#### **AUTO LIGHT SYSTEM**

The auto light system may not turn the headlamp ON/OFF immediately after passing a dark area or a bright area (short tunnel, sky bridge, shadowed area etc.). 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:000000005433956

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

# Diagnosis Procedure

INFOID:0000000005433957

# 1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-10, "System Description".

#### Is the combination switch normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

# 2. CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

### (E)CONSULT-III DATA MONITOR

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

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

#### Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-96, "Removal and Installation".

# 3. HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-40, "Description".

#### Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-47, "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

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

# Diagnosis Procedure

INFOID:0000000005433959

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# 1. CHECK COMBINATION SWITCH

Check the combination switch. Refer to BCS-10, "System Description".

#### Is the combination switch normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

# 2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

#### (P)CONSULT-III DATA MONITOR

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

Monitor item	Condition		Monitor status
HL LO REQ	Lighting switch	2ND	ON
		OFF	OFF

#### Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-96, "Removal and Installation".

# 3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. For Halogen headlamps, refer to <u>EXL-42</u>. "<u>HEADLAMP (HALOGEN)</u>: <u>Diagnosis Procedure</u>". For Xenon headlamps, refer to <u>EXL-44</u>. "<u>HEADLAMP (XENON)</u>: <u>Diagnosis Procedure</u>". Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-47, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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

< SYMPTOM DIAGNOSIS >

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

Description INFOID:000000005433960

The parking, license plate and tail lamps do not turn ON in with any lighting switch setting.

# Diagnosis Procedure

INFOID:0000000005433961

# 1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-10, "System Description".

#### Is the combination switch normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

# 2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

## **©CONSULT-III DATA MONITOR**

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

Monitor item	Condition		Monitor status
TAIL & CLR REQ	Lighting switch	1ST	ON
		OFF	OFF

#### Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-96, "Removal and Installation".

## 3. PARK LAMP CIRCUIT INSPECTION

Check the parking lamp circuit. Refer to EXL-48, "Description".

#### Is the tail lamp circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-47, "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

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

Diagnosis Procedure

INFOID:0000000005433963

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# 1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-10, "System Description".

#### Is the combination switch normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part.

# 2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

#### (P)CONSULT-III DATA MONITOR

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

Monitor item	Condition		Monitor status
FR FOG REQ	Front fog lamp switch (Lighting switch 2ND)	ON	ON
		OFF	OFF

#### Is the item status normal?

YES >> GO TO 3

NO >> Replace BCM. Refer to BCS-96, "Removal and Installation".

## 3.FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-46, "Description".

#### Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-47, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the 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.

General precautions for service operations

INFOID:0000000005433965

- · Never work with wet hands.
- The xenon headlamp system includes a high voltage generating part. Be sure to disconnect battery negative cable (negative terminal) or power fuse before removing, installing, or touching the xenon headlamp (including lamp bulb).
- Turn the lighting switch OFF before disconnecting and connecting the connector.
- When turning the xenon headlamp on and while it is illuminated, never touch the harness, bulb, and socket of the headlamp.
- When checking the headlamp on/off operation, check it on vehicle and with the power connected to the vehicle-side connector.
- Do not touch the headlamp bulb glass surface with bare hands or allow oil or grease to get on it. Do not touch the headlamp bulb just after the headlamp is turned off, because it is very hot.



#### **PRECAUTIONS**

#### < PRECAUTION >

- Install the xenon headlamp bulb socket correctly. If it is installed improperly, high-voltage leak or corona discharge may occur that can melt the bulb, connector, and housing. Do not illuminate the xenon headlamp bulb out of the headlamp housing. Doing so can cause fire and harm your eyes.
- When the bulb has burned out, wrap it in a thick vinyl bag and discard. Do not break the bulb.
- Leaving the bulb removed from the headlamp housing for a long period of time can deteriorate the performance of the lens and reflector (dirt, clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

• When adjusting the headlamp aiming, turn the aiming adjustment screw only in the tightening direction. (If it is necessary to loosen the screw, first fully loosen the screw, and then turn it in the tightening direction.)

Do not use organic solvent (paint thinner or gasoline) to clean lamps and to remove old sealant.



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# **ON-VEHICLE MAINTENANCE**

## **HEADLAMP**

Aiming Adjustment

#### INFOID:0000000005809665

#### PREPARATION BEFORE ADJUSTING

#### NOTE:

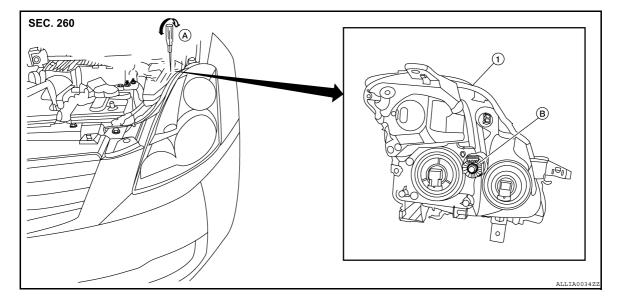
- For details, refer to the regulations in your area.
- Perform aiming adjustment if the vehicle front body has been repaired and/or the front combination lamp assembly has been replaced.

Before performing aiming adjustment, check the following.

- Adjust the tire pressure to specification.
- Position 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).
- Ensure engine coolant and engine oil are filled to correct levels and fuel tank is full.
- Confirm spare tire, jack and tools are properly stowed.
- Wipe off dirt on the headlamp.

#### **CAUTION:**

Never use organic solvent (thinner, gasoline etc.).



### Aiming Adjustment procedure

1. Position the screen.

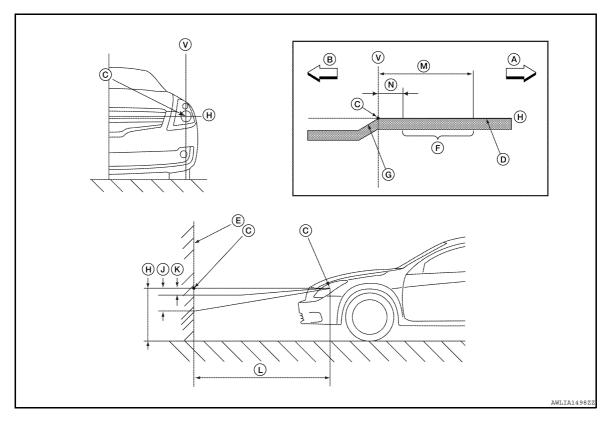
#### NOTE:

- · Stop the vehicle facing the screen.
- Place the screen on a plain road vertically.
- 2. Face the screen with the vehicle. Maintain 7.62 m (25 ft) between the headlamp bulb center and the screen.
- 3. Start the engine. Turn the headlamp (LO) ON.

#### CAUTION:

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

- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.
- For horizontal aiming, adjust headlamp until beam pattern is at horizontal center point.



- A. Right
- D. Cutoff line
- G. Step
- K. -13.3 mm (-0.52 in)
- N. 133 mm (5.24 in)
- B. Left
- E. Screen
- H. Horizontal center line of head lamp
- L. 7.62 m (25 ft)
- V. Vertical center line of headlamp
- C. Center of headlamp bulb (H-V point)
- F. Aim evaluation segment
- J. 53.2 mm (2.09 in)
- M. 399 mm (15.71 in)

• Basic illuminating area for adjustment should be within the range shown on the aiming chart. Adjust head-lamps accordingly.

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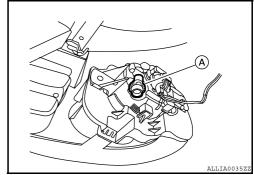
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## FRONT FOG LAMP

# Aiming Adjustment

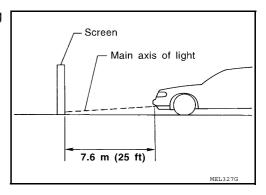
The fog lamp is a semi-sealed beam type which uses a replaceable halogen bulb. Before performing aiming adjustment, make sure of the following.

- · 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.
- Adjust aiming in the vertical direction by turning the adjusting screw (A).
- When performing adjustment, if necessary, cover the headlamps and opposite fog lamp.

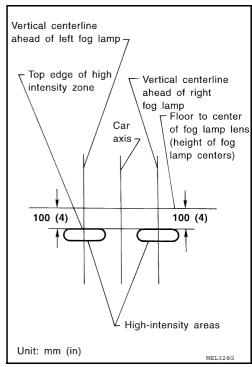


INFOID:000000005433969

1. Set the distance between the screen and the center of the fog lamp lens as shown.



- 2. Turn front fog lamps ON.
- 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.



## **ON-VEHICLE REPAIR**

## **HEADLAMP**

## **Bulb Replacement**

### INFOID:0000000005812328

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### **HEADLAMP**

### **CAUTION:**

• Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from bulb. Do not touch bulb by hand while it is lit or right after being turned off, burning may result.

### Remova

- 1. Disconnect negative battery terminal (xenon only).
- Position the fender protector aside. Refer to <u>EXT-42</u>, "Removal and Installation" (sedan) or <u>EXT-20</u>, "Removal and Installation" (coupe).
- 3. Turn the headlamp bulb sockets counterclockwise to unlock and remove them (halogen).
- 4. Remove the plastic cover, disconnect the ignitor, unlock the retaining spring to unlock and remove the bulb (xenon only).
- Turn the high beam lamp bulb socket counterclockwise to unlock and remove it.

### Installation

### **CAUTION:**

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

Installation is in the reverse order of removal.

### SIDE MARKER LAMP

- 1. Position the fender protector aside. Refer to <u>EXT-42</u>, "Removal and Installation" (sedan) or <u>EXT-20</u>, "Removal and Installation" (coupe).
- 2. Turn the bulb socket counterclockwise to unlock it.
- 3. Pull the side marker bulb to remove it.

## FRONT PARK/TURN SIGNAL LAMP

### Removal

- 1. Position the fender protector aside. Refer to <u>EXT-42</u>, "Removal and Installation" (sedan) or <u>EXT-20</u>, "Removal and Installation" (coupe).
- Turn the bulb socket counterclockwise to unlock it.
- Pull the front park/turn signal bulb to remove it.

### Installation

Installation is in the reverse order of removal.

### **CAUTION:**

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

## Removal and Installation

### INFOID:0000000005433971

### COMBINATION LAMP

### Removal

- Disconnect battery negative terminal (xenon only).
- 2. Remove the front bumper fascia. Refer to EXT-14, "Removal and Installation".
- Ensure lighting switch is OFF.

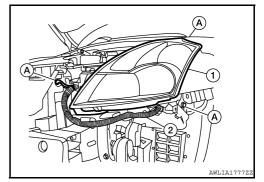
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## **HEADLAMP**

### < ON-VEHICLE REPAIR >

- 4. Remove the headlamp bolts (A).
- 5. Pull the headlamp assembly (1) toward the front of the vehicle, detach the headlamp harness (2) from the headlamp assembly, disconnect the bulb connectors and remove.



Installation

Installation is in the reverse order of removal.

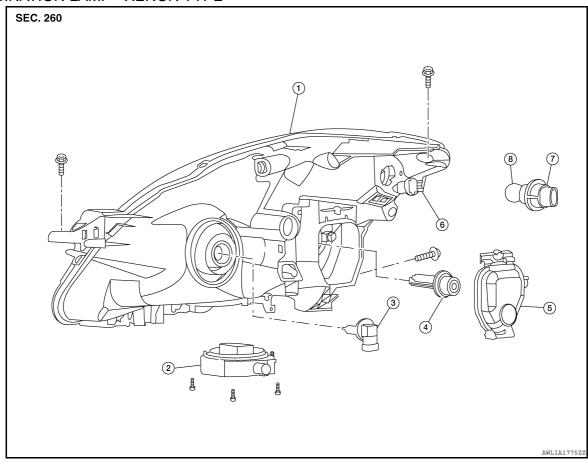
### NOTE:

Confirm headlamp aiming adjustment. Refer to EXL-214, "Aiming Adjustment".

## Disassembly and Assembly

INFOID:0000000005433972

### **COMBINATION LAMP - XENON TYPE**



- 1. Headlamp assembly
- 2. Ballast
- Halogen bulb (high beam)

Xenon bulb

5. Plastic cover

- 6. Side marker lamp bulb
- 7. Front park/turn signal lamp bulb socket 8. Front park/turn signal lamp bulb

### Disassembly

## **CAUTION:**

- Do not touch the glass of the bulb directly by hand. Keep grease and other oily substances away from bulb. Do not touch bulb while it is lit or right after being turned off, burning may result.
- 1. Remove the plastic cover, disconnect the xenon bulb connector, unlock the retaining spring to remove the xenon bulb.

### **HEADLAMP**

### < ON-VEHICLE REPAIR >

- Turn the halogen bulb (high beam) lamp socket counterclockwise to unlock and remove it.
- Turn the front park/turn signal lamp bulb socket counterclockwise to unlock and remove it.
- 4. Pull the front park/turn signal lamp bulb from its socket.
- 5. Turn the side marker lamp bulb socket counterclockwise to unlock and remove it.
- Pull the side marker lamp bulb from its socket.

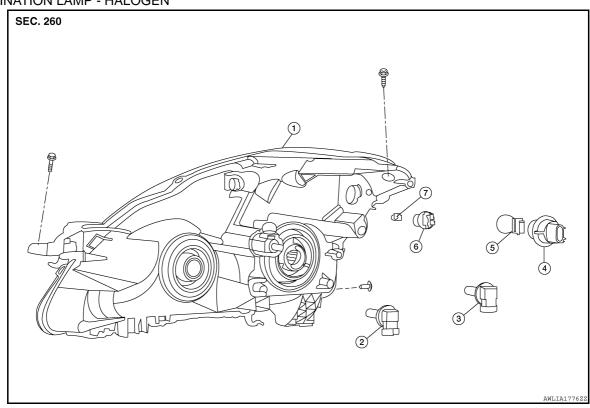
### Assembly

Assembly is in the reverse order of disassembly.

### **CAUTION:**

After installing the xenon bulb, be sure to install plastic cover securely to ensure watertightness.

### **COMBINATION LAMP - HALOGEN**



- 1. Headlamp assembly
- 2. Halogen lamp bulb (high beam)
- 4. Front park/turn signal lamp bulb socket 5. Front park/turn signal lamp bulb
- 7. Side marker lamp bulb
- 3. Halogen lamp bulb (low beam)
  - 6. Side marker lamp bulb socket

### Disassembly

### CAUTION:

- Do not touch the glass of the bulb directly by hand. Keep grease and other oily substances away from bulb. Do not touch bulb while it is lit or right after being turned off, burning may result.
- Turn the halogen lamp bulb (low beam) counterclockwise to unlock and remove it.
- 2. Turn the halogen lamp bulb (high beam) socket counterclockwise to unlock and remove it.
- Turn the front park/turn signal lamp bulb socket counterclockwise to unlock and remove it.
- Pull the front park/turn signal lamp bulb from its socket.
- Turn the side marker lamp bulb socket counterclockwise to unlock and remove it.
- 6. Pull the side marker lamp bulb from its socket.

Assembly is in the reverse order of disassembly.

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## FRONT FOG LAMP

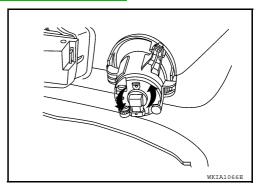
## **Bulb Replacement**

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### **REMOVAL**

The fog lamp is a semi-sealed beam type which uses a replaceable halogen bulb. **CAUTION:** 

- Do not touch the glass of bulb directly by hand. Keep grease and other oily substances away from it. Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.
- Do not leave bulb out of fog lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of fog lamp. When replacing bulb, be sure to replace it with new one.
- 1. Position the front fender protector aside. Refer to EXT-20, "Removal and Installation".
- 2. Disconnect the fog lamp electrical connector.
- 3. Turn the fog lamp bulb counterclockwise to remove it.



### INSTALLATION

Installation is in the reverse order of removal.

### Removal and Installation

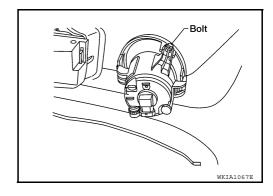
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### **REMOVAL**

The fog lamp is a semi-sealed beam type which uses a replaceable halogen bulb.

### CAUTION:

- Do not leave fog lamp assembly without bulb for a long period of time. Dust, moisture, smoke, etc. entering the fog lamp body may affect the performance. Remove the bulb from the headlamp assembly just before replacement bulb is installed.
- Grasp only the plastic base when handling the bulb. Never touch the glass envelope. Touching the glass could significantly affect the bulb life and/or fog lamp performance.
- 1. Position the fender protector aside. Refer to EXT-20, "Removal and Installation".
- 2. Disconnect the fog lamp electrical connector.
- 3. Remove bolt from top of fog lamp.
- 4. Remove fog lamp.



### **INSTALLATION**

Installation is in the reverse order of removal.

Check fog lamp aiming adjustment. Refer to EXL-216, "Aiming Adjustment".

## STOP LAMP

### Removal and Installation

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### HIGH-MOUNTED STOP LAMP - WITH REAR SPOILER

### Removal

- 1. Remove the rear spoiler. Refer to EXT-49, "Removal and Installation".
- Remove the two screws and remove the LED stop lamp from the rear spoiler.

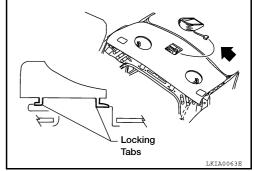
### Installation

Installation is in the reverse order of removal.

## HIGH-MOUNTED STOP LAMP - WITH PARCEL SHELF

### Removal

- 1. Slide high-mounted stop lamp assembly rearward on parcel shelf to give clearance to front tabs.
- Lift front of lamp assembly up and bring forward to give clearance to rear tabs.
- Disconnect the high-mounted connector and remove.



### Installation

Installation is in the reverse order of removal.

## **Bulb Replacement**

INFOID:0000000005812470

### HIGH-MOUNTED STOP LAMP - WITH REAR SPOILER

### Removal

The high-mounted stop lamp uses an LED circuit board instead of a bulb. The LED circuit board is not serviceable and the high-mounted stop lamp must be replaced as an assembly.

## HIGH MOUNTED STOP LAMP - WITH PARCEL SHELF

### Removal

- 1. Remove high mounted stop lamp assembly from parcel shelf.
- Turn bulb socket counterclockwise to unlock it.
- 3. Pull high mounted stop lamp bulb to remove it from the socket.

### Installation

Installation is in the reverse order of removal.

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## **BACK-UP LAMP**

## < ON-VEHICLE REPAIR >

## **BACK-UP LAMP**

Bulb Replacement

## Removal

- 1. Remove the rear combination lamp. Refer to EXL-224, "Removal and Installation".
- 2. Turn back-up lamp bulb socket counterclockwise to unlock and remove.
- 3. Pull back-up lamp bulb from socket to remove.

### Installation

Installation is in the reverse order of removal.

## LICENSE PLATE LAMP

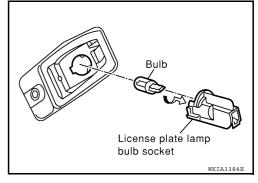
## < ON-VEHICLE REPAIR >

## LICENSE PLATE LAMP

## Bulb Replacement

### **REMOVAL**

- 1. Position trunk lid finisher aside.
- 2. Turn license plate lamp bulb socket counterclockwise to unlock and remove.
- 3. Pull license plate lamp bulb to remove from socket.



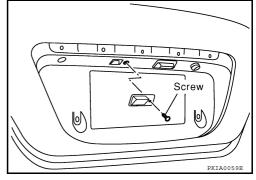
## **INSTALLATION**

Installation is in the reverse order of removal.

## Removal and Installation

### REMOVAL

- 1. Remove the license lamp finisher. Refer to EXT-24, "Removal and Installation".
- 2. Disconnect the license plate lamp connector.
- 3. Remove the license plate lamp screw and remove the license plate lamp.



## **INSTALLATION**

Installation is in the reverse order of removal.

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## **REAR COMBINATION LAMP**

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## REAR COMBINATION LAMP

## Bulb Replacement

#### INFOID:000000005433980

### REAR TURN SIGNAL LAMP

### Removal

- Remove the rear combination lamp. Refer to <u>EXL-224, "Removal and Installation"</u>.
- 2. Turn the rear turn signal lamp bulb socket counterclockwise and remove it.
- 3. Remove the rear turn signal lamp bulb.

### Installation

Installation is in the reverse order of removal.

### STOP/TAIL LAMP

### Removal

- 1. Remove the rear combination lamp. Refer to EXL-224, "Removal and Installation".
- 2. Turn the stop/tail lamp bulb socket counterclockwise and remove it.
- 3. Remove the stop/tail lamp bulb.

### Installation

Installation is in the reverse order of removal.

### **BACK-UP LAMP**

### Removal

- 1. Remove the rear combination lamp. Refer to EXL-224, "Removal and Installation".
- 2. Turn the back-up lamp bulb socket counterclockwise and remove it.
- 3. Remove the back-up lamp bulb.

### Installation

Installation is in the reverse order of removal.

### SIDE MARKER LAMP

### Removal

- 1. Remove the rear combination lamp. Refer to EXL-224, "Removal and Installation".
- Turn the side marker lamp bulb socket counterclockwise and remove it.
- Remove the side marker lamp bulb.

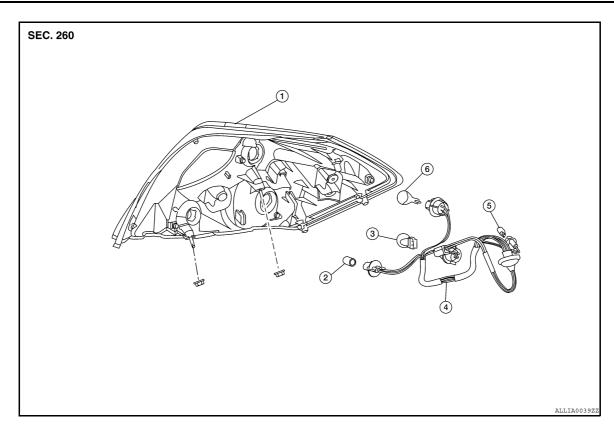
### Installation

Installation is in the reverse order of removal.

### Removal and Installation

INFOID:0000000005433981

### **COMPONENTS**



- 1. Rear combination lamp assembly
- 1. Rear combination lamp harness
- 2. Back-up lamp bulb
- 5. Side marker lamp bulb
- 3. Stop/Tail lamp bulb
- 6. Rear turn signal lamp bulb

## **REMOVAL**

- 1. Partially remove trunk side finisher. Refer to <a href="INT-21">INT-21</a>, "Removal and Installation".
- 2. Remove trunk rear finisher. Refer to <a href="INT-20">INT-20</a>, "Exploded View" (coupe) or <a href="INT-46">INT-46</a>, "Exploded View" (sedan).
- 3. Remove the rear combination lamp nuts.
- 4. Pull the rear combination lamp assembly toward rear of the vehicle and remove.

### INSTALLATION

Installation is the reverse order of removal.

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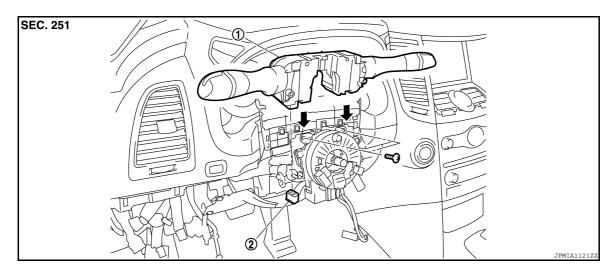
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## LIGHTING AND TURN SIGNAL SWITCH

## Removal and Installation

INFOID:0000000005819507



1. Combination switch

2. Combination switch connector

### NOTE:

- Shown with steering wheel removed for clarity only.
- The lighting and turn signal switch are part of the combination switch assembly.

### REMOVAL

- 1. Unlock steering wheel.
- 2. Disconnect battery.

### **CAUTION:**

- Before servicing, disconnect both battery terminals and wait at least three minutes.
- Do not use air tools or electric tools for servicing.
- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.
- In case a malfunction is detected by the air bag warning lamp, reset with the self-diagnosis function and delete the memory with CONSULT-III.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to <a href="SRC-12">SRC-12</a>, "SRS Operation Check".
- 3. Remove steering column covers. Refer to IP-10, "Exploded View".
- 4. Rotate steering wheel clockwise to access first combination switch bolt. Remove bolt.
- 5. Rotate steering wheel counter-clockwise to access second combination switch bolt. Remove bolt, disconnect electrical connectors and combination switch.

## **INSTALLATION**

Installation is in the reverse order of removal.

## **HAZARD SWITCH**

## < ON-VEHICLE REPAIR >

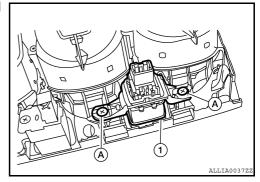
## HAZARD SWITCH

## Removal and Installation

#### INFOID:0000000005433983

## Removal

- 1. Remove the center ventilator grills. Refer to <u>VTL-24, "CENTER VENTILATOR GRILLES : Removal and Installation"</u>.
- 2. Disconnect the passenger air bag and hazard switch connectors.
- 3. Remove the hazard switch screws (A) and remove the hazard switch. (1).



## Installation

Installation is in the reverse order of removal.

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

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# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

Headlamp INFOID:000000005433984

Item	Wattage (W)*
Low (halogen)	55
Low (xenon)	35
High	65

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

**Exterior Lamp** 

INFOID:0000000005433985

Item		Wattage (W)*	
Front combination lamp	Turn signal lamp		27/8 (amber)
	Park/Side marker lamp		5
Rear combination lamp	Stop/Tail lamp		27/8
	Turn signal lamp		27
	Back-up lamp	Sedan	18
		Coupe	13
	Side marker lamp		5
Fog lamp			55
License plate lamp			5
High-mounted stop lamp	Parcel shelf mounted (Coupe)		LED
	Parcel shelf mounted (Sedan)		18
	Rear spoiler mounted		LED

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